

Schedule for ICMMT2010

May. 8		Registration				
May. 9		Registration				
May. 9	09:00-09:15	Address from the ICMMT2010 General Chair	Prof. Zhenghe Feng	Chaired by Prof. Bingzhong Wang UETSC, China		
	09:15-09:20	Address from the UESTC Vice-President	Prof. Caidong Xiong			
	09:20-09:25	Address from the ICMMT2010 TPC Chair	Prof. Wei Hong			
	09:30-10:10	World Largest Antenna FAST – Five-hundred meter Aperture Spherical radio Telescope	Prof. Rendong Nan <i>Chinese Academy of Sciences, China</i>	Chaired by Prof. Bumman Kim <i>POSTECH, Korea</i>		
	10:10-10:50	Metamaterial Microstrip Antennas and Arrays: A New Approach for Metamaterial Research at Microwave Frequency	Prof. Le-Wei Li <i>National University of Singapore, Singapore</i>			
	10:50-11:30	Quasi-optical Systems for Remote Sensing and Space-Astronomy	Prof. Xiaodong Chen <i>University of London, UK</i>			
May. 10	11:30-12:10	Recent Trend of Power Amplifiers for Mobile Communication	Prof. Bumman Kim <i>POSTECH, Korea</i>	Chaired by Prof. Ruimin Xu <i>UESTC, China</i>		
	Lunch					
	12:10-13:30	Lunch				
	13:30-17:30	A1	A2	A3	A4	A5
	18:00-20:00	ICMMT2010 ISC/TPC Meeting				
	08:20-12:00	B1	B2	B3	B4	B5
May. 10	Lunch					
	12:00-13:30	C1	C2	C3	C4	C5
	13:30-17:30	Lunch				
	18:00-20:00	Banquet & Best Student Papers Award				
May. 11	08:20-12:00	D1	D2	D3	D4	D5
	Lunch					
	12:00-13:30	E1	E2	E3	E4	E5
	13:30-17:30	Lunch				
Room Name	Room 1 Sentosa	Room 2 Kedah	Room 3 Kelantan	Room 4 303	Room 5 403	Room 6 2nd Floor Gallery of WuFu Building
Sessions	A1~E1	A2~E2	A3~E3	A4~E4	A5~E5	P1~P5

2010 International Conference on Microwave and Millimeter Wave Technology (ICMMT2010)

Technical Program

2010-4-29

May 8-11, 2010

Wangjiang Hotel, Chengdu, China



电子科技大学
University of Electronic Science and Technology of China



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Media:

Journal of microwaves, China

Chinese Journal of Radio Science

Mobile Communications, China

“Microwave Journal” Microwave Journal, USA

Rfeda, China

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Greetings from ICMMT 2010 General and Executive Chairs

It is our great pleasure to invite you to attend the 2010 International Conference on Microwave and Millimeter Wave Technologies (ICMMT2010), which is the seventh of the consecutive series initiated in 1998 to be held in China every other year. We cordially welcome you to ICMMT2010. Besides, we would like to take this opportunity to express our sincere appreciation to the leading scientists, session organizers and all contributors for their great help and valuable supports to ICMMT2010. Many thanks also to the Technical Program Committee, the Organizing Committee and the International Steering Committee as well as the sponsors and the technical sponsors for their efforts to bring all the participants an excellent technical program and an opportunity to spend a pleasant time at the conference.

ICMMT2010 will provide a broader forum for worldwide scientists and engineers of varied backgrounds to exchange information and share research results to discuss collaborations in the fields of microwave, millimeter wave and even to the far infrared and optical waves. The conference is also a platform for the new faces to become known and for the previous attendees to refresh their friendships. A large-scale exhibition of research achievements and commercial products related to the conference topics, the 2010 Microwave Industry Exhibition in Chengdu China, will be held concurrently.

Chengdu is an ancient city with more than 2300 years of history. It has a reputation of being “the Land of Abundance”. In addition, there are a number of traditional historic and cultural sights around Chengdu. We hope all of attendees an enjoyable and memorable stay in Chengdu, China.



Zhenghe Feng
General Chair



Bingzhong Wang
Executive Chair

Message from the Technical Program Chairs

On behalf of the Technical Program Committee (TPC), we welcome all of you to attend the 2010 International Conference on Microwave and Millimeter Wave Technology (ICMMT2010) in Chengdu, the one of the famous cities in China.

A high number of 811 papers were submitted to ICMMT2010 from 17 countries and regions. More than 70 TPC members reviewed the papers for their technical merits and the interests to the microwave and millimeter wave community. Finally, a total number of 584 papers were accepted for presentation in ICMMT2010. We have arranged 25 oral sessions and 5 poster sessions from May 9 to May 11 to present the papers.

In this large event on microwave and millimeter waves, we have invited 4 Keynote Speakers from research institute and universities.

Besides the regular papers, a high number of 244 student papers were received to take part in the student-paper competition. After the peer review by the TPC members, 20 papers were selected to the final list for the three best student papers.

All paper submissions, paper review and evaluation, and paper acceptance process are on-line based. We are indeed proud of to acknowledge Mr. Guang-Qi Yang and Mr. Kaihua Gu in the State Key Laboratory of Millimeter Waves at Southeast University for their great efforts on the technical supports.

TPC Co-Chairs

Prof. Wei Hong, Southeast University, China

Prof. Ruimin Xu, University of Electronic Science and Technology of China

Prof. Junfa Mao, Shanghai Jiaotong University, China

Prof. Kama Huang, Sichuan University, China

Prof. Cheng Liao, Southwest Jiaotong University, China

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Qingxin Chu, South China University Of Technology, China
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XinAn Liu, No.722 Institute of CSIC, China
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Wenyan Yin, Shanghai Jiao Tong University, China
Xiaoxin Yin, Southeast University, China
Min Zhang, Tongji University, China
Qijing Zhang, Carleton University, Canada
Xianmin Zhang, Zhejiang University, China
Yerong Zhang, Nanjing University of Post Telecommunications, China
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Yunchuan Guo, University of Electronic Science and Technology of China
Maoyan Wang, University of Electronic Science and Technology of China
Bo Chen, University of Electronic Science and Technology of China
Guangqi Yang, Southeast University, China
Kaihua Gu, Microwave Society of Chinese Institute of Electronics, China

ICMMT2010 Online Support

Guangqi Yang, Southeast University, China
Kaihua Gu, Microwave Society of Chinese Institute of Electronics, China

Conference Site and Office Location

The 2010 International Conference of Microwave and Millimeter Wave Technology (ICMMT2010) will be held on May 8-11, 2010, at Wangjiang Hotel, Chengdu, China. The office and session locations are shown in the back cover of this program.

Registration

The ICMMT2010 registration begins on March 19, 2010. The registration desk is at Wangjiang Hotel on May 8 and May 9. The on-site registration fee is shown in the following table. The on-site student registration requires a valid student ID. If you have pre-registered, your name badge and Technical Program will be ready for you to pick up at the registration desk during the conference. Please wear your name badge throughout the conference. Access will be prohibited to the exhibition, tea break, interactive areas, and technical sessions if a name badge is not visible.

	On-site Registration	
	IEEE/EuMA member	Non- IEEE/EuMA member
Participants	CNY 3200	CNY 3500
Student Participants	CNY 1600	CNY 1800

Projection Facilities

Standard LCD projector (connected to a local PC) will be provided in each conference room. If you need an overhead projector, please contact the conference office.

Guidelines for Presentations

INFORMATION FOR ORAL PRESENTERS

Presenters are required to report to their session room and to their Session Chair at least 15 minutes prior to the start of their session (8:05AM in the morning or 13:15 PM in the afternoon). There are no scheduled breaks in the agenda so it is mandatory that the presentations be loaded before the beginning of each session. Any delays in the start of a paper at its scheduled time due to a presenter's disregard of this guidance will result in less presentation time for that paper.

All presentations are limited to 20 minutes in their entirety. The strict limits are 15 minutes for the formal presentation and 5 minutes for questions and discussions. It is critical that we stay

on schedule to accommodate attendees who move between sessions. The Session Chair will remind the presenter in 15 minutes after start.

Each session room will be equipped with a computer with an LCD projector. This is the only permissible projection system. Presenters must use the session's computer for their presentation, i.e., their presentation must be loaded in advance on this computer. Other computers will not be permitted. Each computer is equipped with a CD-ROM drive and a USB port to read CDs and USB flash memory, respectively. If you have a special requirement to use an overhead projector, please contact with the conference office at least one hour prior to the start of their session.

The operating system for session computers is Microsoft Windows XP (or newer). The softwares available on each machine are Adobe Acrobat Reader (for PDF), MathType 5.0 and Microsoft Office 2002 (or newer) that includes Word, Excel, PowerPoint. Therefore, all presentations must be compatible with these packages. There will be full-featured computers with a projector and a CD-ROM burner available in the preview room. Presenters are argued to try out their presentations if there is any concern on the format, presentation length, etc. There will be also assistance and advice available to presenters at this place.

Please remember that the responsibility of having your paper ready for Presentation at the scheduled time is primarily in your hands as the presenter. Due to the very large number of papers and a very tight schedule, we cannot accommodate delays due to your not being ready.

INFORMATION FOR POSTER SESSION PRESENTATIONS

The poster sessions will begin at 9:20 AM in the morning and 14:10 PM on the afternoon. All presenters are required to mount their papers 15 minutes prior to the start of their session. Each poster presentation will last about 2.5 hours from 9:20 – 12:00 in the morning and 14:10 – 16:50 in the afternoon. During this time, the presenter must remain at the display board to answer questions and discuss informally the contents of the display.

The poster display should include a statement of the problem, objectives of the research or project, the methodology used to solve the problem or implement the program, the major findings or outcomes and their significance, and conclusions. There should be a logical sequence -- introduction, development, and conclusion -- to your display. Each sheet should be numbered. A heading should be prepared for your presentation using lettering at least 3cm high. The heading should include the title of the poster and all author names and institutional affiliations. Your poster abstract should appear in the top left-hand corner of the board. Lettering should be simple, bold, and easily legible from a distance of one meter.

One poster board is provided for each presentation, which is 2 meter high by 1 meter wide. The background color of the board is usually beige or white. Pins or tapes are provided to mount your posters on the boards. All materials to be displayed should be prepared before you arrive. Supplies will not be available at the conference site.

General Information

CONFERENCE VENUE

ICMMT2010 will be held at Wangjiang Hotel, Chengdu, China.

Address: 42 Xiashahepu, Chengdu, Sichuan, China

Tel: +86-28-84790000

Fax: +86-28-84791688

Website: <http://www.wangjianghotel.com>

TRANSPORTATION

Please refer to the website:

<http://www.mws-cie.org/icmmt2010/conference/html.php?title=Transportation> for details.

ABOUT Chengdu

Chengdu is the political, economical and cultural center of Sichuan province, there are a great deal of humanistic sights and the natural sceneries also take a unique style. Over 1000 years ago in the Tang Dynasty, the rhesis “Standing before the window, the west mountain is covered by deep snow exist over thousands of years, a sudden cold is felt; In front of the door, boats that have traveled for tens of thousands of miles throughout East Wu are parking” was written by poet.

“Land of Abundance” – Chengdu, the biggest Campagna in the Southwest of China, holds 6 urban areas, 4 suburb areas, 6 countries, add up to 12.6 thousand square kilometers, with a population of 10 million.

As one of the famous city of historical culture in China, Chengdu in possession of abundant tourist resources. More than 1500 years ago, the poet Zuo Si of the Jin Dynasty once praised it with “spectacular and beautiful”. Not only the “Poet God” Li Bai but also the “Sage in Poetry” Du Fu had profoundly eulogized this city which takes its own graceful bearing. Indeed, Chengdu is a city of peaceful and prosperous with deep cultural deposition and beautiful natural environment.

Varied folk festivals held every year in Chengdu, such as the Flower Festival, the Lantern Festival, the Folk Song Competition and the Dragon-boat Festival, can be traced back to nearly 1000 years ago. They are part of the traditional culture of folk arts in Chengdu which, while keeping the original styles and forms, are often presented with some new ideas.

Sichuan Opera, highly-reputed in the whole country for its strong local characteristics, absorbs the essence from other operas to enrich and improve itself all the time. Some of its tricks like “Bianlian” (changing facial masks) and “Penhuo” (spitting fire) can be rated as unique skills and evoke much admiration from the audience.

Sichuan food is widely enjoyed throughout China. As the popular Chinese saying goes, "the best food is found in Sichuan". Being one of the four major Chinese cuisines and with over 3000 varieties and hundreds of representative dishes, it is recognized as something special for its delicate ways of cooking. Chengdu snacks are well-known for their low price, excellent appearance and taste, and exquisite shape. Chengdu hotpot is delicious, spicy and refreshing. It can be eaten while boiling, tasting entirely unique.

Chengdu is a famous scenic region for tourists in Southwest China, characterized by the all-season scenery and the ancient culture of the Shu Kingdom during the Three Kingdom Period at the end of the Han Dynasty.

Chengdu is the birthplace of the tea culture and a major tea base of China with largest number of tea houses in the world.

LANGUAGE

The official language for the Conference is English. However, in the public society, Chinese mandarin is commonly spoken in Chengdu.

VISA

Each person from abroad, who wants to enter the Chinese Customs, needs to hold a visa issued by Chinese Embassy or Consulate. It should be submitted to the Chinese Embassy in your country for you to apply for the visa. You can also apply for a Visa type of common tourist, which is convenient to be issued without the requisition form and valid for 30 days.

CURRENCY AND CREDIT CARDS

China's currency is RMB with its monetary unit RMB Yuan. The exchange rate is about 1 USD FOR 6.8 RMB. ONLY RMB cash is acceptable on the registration desk on the conference site. This is also the case in most large shopping centers and other hotels.

TAX AND TIP

All the shopping is free of tax. Be sure to make big bargaining when buy merchandise from the Street Market. Tipping is by no means a traditional Chinese custom. Please help keep the good custom and do not tip a waiter/waitress or a taxi driver and other person who provides regular service.

OPENING HOURS

Bank and Post Office Opening hours: 8:30 a.m. to 5:30 p.m., from Monday to Sunday.
Government Office Opening hours: 8:00 a.m. - 5:00 p.m., from Monday to Friday.
Store Opening hours: usually 9:00 a.m. to 8:00 p.m., but the large shopping center serves till 10:00 p.m., from Monday to Sunday.

ELECTRICITY

In China, the standard outlets provide AC of 220 V/50 Hz.

TAXI

Usually, a taxi is available along the roadsides, while you wave for it. However, at main streets it is only available at taxi stops or in front of a hotel.

INTERNET ACCESS

There are WLAN with internet access in the registration room.

ICMMT2010 Online

Information on ICMMT2010 has been posted on the World Wide Web at
<http://www.mws-cie.org/ICMMT2010>

Keynote Presentations

2010-05-09 AM, Sunday, WuFu Hall

Co-Chairs: Bumman Kim, Ruimin Xu

9:30-10:10

World Largest Antenna FAST – Five-hundred meter Aperture Spherical radio Telescope

Rendong Nan, *Chinese Academy of Sciences, China*

10:10-10:50

Metamaterial Microstrip Antennas and Arrays: A New Approach for Metamaterial Research at Microwave Frequency

Le-Wei Li, *National University of Singapore, Singapore*

10:50-11:30

Quasi-optical Systems for Remote Sensing and Space-Astronomy

Xiaodong Chen, *University of London, UK*

11:30-12:10

Recent Trend of Power Amplifiers for Mobile Communication

Bumman Kim, *Pohang University of Science and Technology, Korea*

2010-05-09 PM

Room 1

ORAL Session: A1 (11 presentations)

Microwave Antennas

Session Chair: Haiwen Liu, Mohammad Matin

- 13:30 - 13:50 Design of Broadband Patch Antenna for WiMAX and WLAN
MohammadAbdulMatin, ManojPravakar, HossainHassan(**Bangladesh**)
- 13:50 - 14:10 Bandwidth Potential Analysis of GSM Antennas Based on Oval-Shaped Mobile Terminals
YongyanDu, AnpingZhao, AnttiSalo, JarkkoSaunamaki(**China Mainland**)
- 14:10 - 14:30 A Novel Dielectric Resonator Antenna with new mode and feeding structure
YangGao, ZhijunZhang, ZhengheFeng, Magdy FIskander, RuihongLi(**China Mainland**)
- 14:30 - 14:50 A Conformal S-Band Dual-Port Dual-Polarized Antenna for Satellite Digital Audio Broadcast
kunpengWei(**China Mainland**)
- 14:50 - 15:10 Design of L-circularly polarized Microstrip Antenna Array at Ka band
YiWang, LeiWang, YunqingSun(**China Mainland**)
- 15:10 - 15:30 Analysis and Design of Broadband Microstrip Patch Antenna with a Pair of Double Cross-shaped Slots
Cun-LongLi, Hai-HuaWang, Hao-JiaLin, Xiao-WeiShi, Wen-TaoLi, LeXu(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 A Novel Pattern Reconfigurable Wideband Slot Antenna Using PIN Diodes
Guang-minZhang, Jing-songHong, Bing-zhongWang(**China Mainland**)
- 16:10 - 16:30 A Novel Printed UWB Monopole Antenna Fed by Coaxial Cable
ZhaochengZhang, ChenjiangGuo, JunDing, YiSu(**China Mainland**)
- 16:30 - 16:50 High Gain Ferrite Cavity-Backed Slot Antenna For RFID Application
chaoli, quanyuanFENG(**China Mainland**)
- 16:50 - 17:10 Multi-objective Optimization Design of Multilayer RFID tag antenna by Pareto GA
chaoli, quanyuanFENG(**China Mainland**)
- 17:10 - 17:30 A Wideband Four-Element Antenna System For Mobile Terminals
LeiLiu, ZhengweiDu(**China Mainland**)

2010-05-09 PM
Room 2

ORAL Session: A2 (11 presentations)

Passive Devices and Circuits

Session Chair: Min Zhang, Fujiang Lin

- 13:30 - 13:50 Open Loop Resonator Bandpass Filter with Wide Stopband Using Spurlines and Microstrip Stubs
ChenXiaoQun, LiPing, LinHaoJia, TongJianZhao, ShiXiaoWei(**China Mainland**)
- 13:50 - 14:10 Compact Ultra-Wideband Bandpass Filter Implemented With Stepped Impedance Resonators And T-shaped Line
WenjieFeng, WenquanChe, QuanXue(**China Mainland**)
- 14:10 - 14:30 A study of dual-mode patch resonator-based microwave filters
Jia-LinLi, Jian-PengWang, Xue-SongYang, Bing-zhongWang(**China Mainland**)
- 14:30 - 14:50 Compact Microstrip Power Dividers with Slow Wave Structure and Capacitor Loading
JunHe, BingZhongWang, WeiShao(**China Mainland**)
- 14:50 - 15:10 A Novel Compact Dual-wideband Bandpass Filter
lingyuncai, gangzeng, xinweizhan(**China Mainland**)
- 15:10 - 15:30 A New Substrate Integrated Waveguide Six-port Circuit
Li-nanWu, Xu-chunZhang, Chuang-mingTong, MingZhou(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 A Wide Stopband CPW Low Pass Filter Using Quarter Wavelength Stepped Impedance Resonators
Hao-JiaLin, Xiao-QunChen, Xiao-WeiShi, LeiChen, Yan-FuBai(**China Mainland**)
- 16:10 - 16:30 A Wide Stopband Branch-Line Coupler Using Defected Ground Structure
Jian-ZhaoTong, Xiao-QunChen, Xiao-WeiShi, LeiChen, Hao-JiaLin(**China Mainland**)
- 16:30 - 16:50 Design of Compact Planar Three-Way Dual-Band Power Divider Using Defected Ground Structure
Yan-FuBai, Xin-HuaiWang, Xiao-WeiShi, Hao-JiaLin, Xiao-QunChen, PingLi(**China Mainland**)
- 16:50 - 17:10 Design of Planar Tri-Band Bandpass Filter
Xiuyinzhang(**China Mainland**)
- 17:10 - 17:30 A Highly Selective Super-Wide Bandpass Filter by cascading HMSIW with Asymmetric Defected Ground Structure
WeiLiu, FalinLiu(**China Mainland**)

2010-05-09 PM
Room 3

ORAL Session: A3 (11 presentations)

Computational Electromagnetics

Session Chair: Qingxia Li, Michael Buchta

- 13:30 - 13:50 Node Localization Based on Time Reversal In Wireless Sensor Network
Wei-weiWang, Jing-songHong, Guang-mingZhang, Bing-zhongWang(**China Mainland**)
- 13:50 - 14:10 Application of Generalized Transition Matrix to Linear Straight Wires
WentaoChen, GaojianKe, PengWang, GaobiaoXiao(**China Mainland**)
- 14:10 - 14:30 Multi-target scattering analysis based on generalized higher-order finite-difference time-domain method
HaiLi, Zhenhaishao, SweePingYeo, MengHiotLim(**China Mainland**)
- 14:30 - 14:50 Simulation of the 2D TMz Modes of Time-Domain Maxwell's Equations by RBF-MLM
Sheng-jianLai, Bing-zhongWang, YongDuan(**China Mainland**)
- 14:50 - 15:10 Dispersive Finite-Difference Time-Domain Method for Modeling of Cloaking Structure
LongWang, ShengjianLai, ZhaoyunDuan(**China Mainland**)
- 15:10 - 15:30 Rapid Analysis of Electrically Large Radome
HongfuMeng, WenbinDou(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Application of VSIE method to scattering problem involving conducting and anisotropic bodies
TianLu, YanwenZhao, YingyiYang(**China Mainland**)
- 16:10 - 16:30 A New Parallel Sparse Approximation Inverse Preconditioner in MLFMA
Dao-PuXiang, Dong-MingZhou, Jian-GuoHe(**China Mainland**)
- 16:30 - 16:50 Tackling The Slow Attenuation of The Spectral-Domain Green's Function in Sommerfeld Integrals
Da QingLiu, Hao GangWang, HuanLi(**China Mainland**)
- 16:50 - 17:10 3-D Spherical Perfectly Matched Layer for Finite-Volume Domain Truncation
Hong-XingZheng, weiHe, ChongPeng(**China Mainland**)
- 17:10 - 17:30 Analysis of Electromagnetic Scattering Using UV Method Enhanced Marching-on-in-Order Time-Domain Integral Equations
Q. Q.Wang, Y. F.Shi, M. M.Li, Z. H.Fan, R. S.Chen(**China Mainland**)

ORAL Session: A4 (11 presentations)

Scattering and Propagation

Session Chair: Qingxin Chu, Yongsheng Dai

- 13:30 - 13:50 Rain Fade Characteristics Analyses for V-Band Link in Tropical Region
khairayubadron, fadzilismail, rafiqulislam, khaizuranabdullah, jafridin, tharekrahman
(**Malaysia**)
- 13:50 - 14:10 FDTD Analysis of Three-Dimensional Target Covered With Inhomogeneous Unmagnetized Plasma
ZhengliHan, JunDing, PeilinChen, ZhaochengZhang, ChenjiangGuo(**China Mainland**)
- 14:10 - 14:30 EM Scattering by Conductor Plate Coated with Multilayered Medium Having Metamaterials
helinyang, TingXiao, YongzhiCheng, MinhuaLi, BoxunXiao, GuopingZhang(**China Mainland**)
- 14:30 - 14:50 The effects of ultraviolet communication in different working wavelength base on single-scatter model
MingLi, LuBai, zhen-SenWu, Pin-HuaXie, Shi-MeiWang(**China Mainland**)
- 14:50 - 15:10 Mean-field approximation of fractal aggregate soot in shaped beam incidence
LuBai, Zhen-senWu, Hai-YingLi, MingLi, Pin-HuaXie, Shi-MeiWang(**China Mainland**)
- 15:10 - 15:30 Synthesis of an Unequally Spaced Array Using DEGL Algorithm
LeiChen, Xiao-weiShi, Tian-LingZhang, Jian-ZhaoTong, RuiLi(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Electromagnetic Scattering of Conducting Bodies of Revolution Coated with Chiral Material
YuyuanAn, ZhenhongFan, JianZhu, RushanChen(**China Mainland**)
- 16:10 - 16:30 Analysis of Electromagnetic Scattering of Cavities with Nonuniform Plasma Coating
JianjunDing, S.Shang, RushanChen, ZhenhongFan(**China Mainland**)
- 16:30 - 16:50 A Numerically Efficient Transmission Characteristics Analysis of Finite Planar Frequency-Selective Surfaces Embedded in Stratified Medium
T.Su, C.Y.Li, D. Z.Ding, RushanChen, GuiWang(**China Mainland**)
- 16:50 - 17:10 On the Channel Capacity of MIMO Rayleigh-Lognormal fading channel
DongyaShen, AnxianLu, YanniCui, FuqiangKuang, XiupuZhang, KeWu, JianpingYao(**China Mainland**)
- 17:10 - 17:30 A simple simulating method for Nakagami fading channel
DongyaShen, YanniCui, AofengZhang, YihuaiYang, KeWu(**China Mainland**)

2010-05-09 PM
Room 5

ORAL Session: A5 (11 presentations)
PBG and Metamaterials, Low-Noise Devices and Techniques
Session Chair: Dongya Shen, Kai Kang

- 13:30 - 13:50 A 60 GHz LNA with 18.6 dB gain and 5.7 dB NF in 90nm CMOS
KaiKang, JamesBrinkhoff, FujiangLin(**Singapore**)
- 13:50 - 14:10 A Single-layer Left-handed Material of Split-square LC Resonator Coupled with H-shaped structure
PeilinChen, JunDing, ZhengliHan, ChenjiangGuo(**China Mainland**)
- 14:10 - 14:30 Asymmetric Ridge Waveguide Slot Antenna Using High-impedance surface
QiangGao(**China Mainland**)
- 14:30 - 14:50 Enhancement of Directivity of Source Radiation Using Parabolic Cylinder Made of Left-handed Metamaterials
DayongZou(**China Mainland**)
- 14:50 - 15:10 Mutual Coupling Reduction in Microstrip Antennas by Using Dual Layer Uniplanar Compact EBG (UC-EBG) Structure
YiSu, XingLei, ZhangZhaocheng, DingJun, GuoChenJiang(**China Mainland**)
- 15:10 - 15:30 Symmetric Split Ring Resonator with Capacitor Loading for Metamaterial
GuohongDu, XiaohongTang, FeiXiao(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Novel Directional Coupler from Composite Right/Left-Handed Transmission Line and Artificial Transmission Line
YunongLi, ChangjunLiu, TaoYang, WenHuang, KamaHuang(**China Mainland**)
- 16:10 - 16:30 Dual-Stop-Band Filter Designed Using CRLH Transmission Line
PengSu, XianqiLin, XingLiu, BoZhang, YongFan(**China Mainland**)
- 16:30 - 16:50 Compact Microstrip Band-stop Filter Using IDCLLR
YiPeng, WenxunZhang(**China Mainland**)
- 16:50 - 17:10 Ground Plane Invisibility Cloak Composed of Beam Modulation Blocks
XiaofeiXu, YijunFeng(**China Mainland**)
- 17:10 - 17:30 A Bandpass Filter Based on Fractal Shaped Defected Ground Structure Resonators for Wireless Communication
ShanJiang(**China Mainland**)

2010-05-09 PM

Room 6

14:10 - 16:50

POSTER Session: P1_1 (20 presentations)

Student paper contest

Solid State Device and Circuits

- P.1 60GHz Unilateralized CMOS Differential Amplifier
XiaojunBi, YongxinGuo, JamesBrinkhoff, Mook-SengLeong, FujiangLin(**Singapore**)
- P.2 A Millimeter-Wave Solid-State Power Combining Circuit Based on Low-Loss Corporate Waveguide Structure
DongRan, JunXu, LeiWang, MaoyanWang(**China Mainland**)

Monolithic Integrated Circuits

- P.3 A Wideband linear CMOS power amplifier design for 2.3-GHz and 2.6-GHz m-WiMAX system
BoshiJin, JunghwanMoon, BummanKim(**South Korea**)
- P.4 An Ultra-high-speed Direct Digital Synthesizer MMIC
GaopengChen, DanyuWu, ZhiJin, XinyuLiu(**China Mainland**)
- P.5 Ka-Band High Gain Low Noise Amplifier by Stacked-GCPW Transmission Line
Hsien-ChinChiu(**Taiwan**)
- P.6 A 2.4GHz Low-IF RF Frontend for wireless sensor networks
HaoZhang(**China Mainland**)

Passive Devices and Circuits

- P.7 Two Novel Substrate Integrated Waveguide filters in LTCC Technology
FeiYang, Hong-xiYu(**China Mainland**)
- P.8 Millimeter-wave integrated waveguide power dividers for power combiner and phased array applications
XianrongZhang, QingyuanWang, AoLiao, YuanbinXiang(**China Mainland**)
- P.9 A Novel Nth-Order Microstrip Dual-Mode Bandpass Filter with N+2 Transmission Zeros
WeiShen, Wen-YanYin, Xiao-WeiSun, Lin-ShengWu(**China Mainland**)

Computational Electromagnetics

- P.10 Calderon Multiplicative Preconditioner for Acceleration of Fast Direction Multilevel Algorithm for Scattering Problem
HuaChen, JianZhu, RushanChen, Z. H.Fan(**China Mainland**)
- P.11 An H-matrix Direct Method with Improved Solution for Finite Element Analysis of Scattering Problems
T.Wan, Z. H.Fan, X. Q.Hu, RushanChen(**China Mainland**)

Microwave Antennas

- P.12 Design of Array Fed Imaging Reflector Antenna for Monopulse Limited Scan Use
ZhenjieZhang(**China Mainland**)
- P.13 Tri-band Circularly Polarized Stacked Microstrip Antenna for GPS and CNSS Applications
WenLiao, Qing-XinChu, ShuDuo(**China Mainland**)

Microwave Remote Sensing and Sensors

- P.14 Parameter Inversion of Layered Media Covered by a Rough Surface
ZhiweiLin, XinXu, XiaojuanZhang, GuangyouFang(**China Mainland**)

Microwave and Millimeter Wave Systems

- P.15 Novel High efficiency Broadband Ku band Power Combiner
DanyuWu, XiaojuanChen, GaopengChen, XinyuLiu(**China Mainland**)

EMI and EMC

- P.16 Generalization of Network Formulation Based on Power Balance Method and Its Application
JuanLiu, XiangZhao, KamaHuang(**China Mainland**)
Wireless RF Components and Systems
- P.17 A 10~30-GHz CMOS Distributed Amplifier for UWB Applications
Chia-HsunChen, Hui-ChenHsu, Wu-ShiungFeng(**Taiwan**)
Radar & Broadband Communication Systems
- P.18 Intermediate Frequency Circuit for a 60GHz LFMCW Radar
yingbao, zhiguoshi, kangshengchen(**China Mainland**)
PBG and Metamaterials
- P.19 The Pseudo-Brewster Angles for Anisotropic Metamaterials
ZhengbinWang, BoZhu, YijunFeng, JunmingZhao, TianJiang(**China Mainland**)
- P.20 Bowtie Patch Antenna with Electric Dipole on a HIS Substrate
YanLiu, Kwai ManLuk, HongChengYin(**Hong Kong**)

Microwave Antennas

- P.1 A novel high power integrated antenna and array
GuangyanLiu(**China Mainland**)
- P.2 Design of a Compact Ultra-wideband Printed Antenna
FengZhou, Zupingqian(**China Mainland**)
- P.3 A Compact CPW-Fed Microstrip Patch Antenna Combining Koch Boundary and Triangle Slot
YinshengWei, ShaobinLiu, NanGao, YUChen(**China Mainland**)
- P.4 Broad-Band Space-Filling-Based Slot Antenna
YuChen, ShaobinLiu, ZhaoyangDai, YinshengWei(**China Mainland**)
- P.5 Quadrifilar Helix Antenna With Mechanically Tunable Compact Geometry
NanGao, ShaobinLiu, YinshengWei, ZhaoyangDai(**China Mainland**)
- P.6 Coaxial probe-fed Circularly Polarized Microstrip Antenna for BeiDou RDSS Applications
Su-QinWu, Shao-BinLiu, ZhenGuo(**China Mainland**)
- P.7 A Compact High Gain Microstrip Array Antenna
yunhonghe(**China Mainland**)
- P.8 A Novel Ultra-Wideband Planar Slot Antenna
Zhong-WuYu, Guang-MingWang, Zhi-YingYu(**China Mainland**)
- P.9 Wide Band Harmonic Suppression Based on Koch-Shaped Defected Ground Structure for a Microstrip Patch Antenna
Zhong-WuYu, Guang-MingWang, KeLu(**China Mainland**)
- P.10 A Novel Dual-band Micro-Strip Antenna Array
BinHuang, JianwuWang, YingxinXu(**China Mainland**)
- P.11 Analysis and Design of A Novel UWB Antenna Array
BinHuang, YingxinXu(**China Mainland**)
- P.12 Design of unsymmetrical slot antenna based on ANN for RFID tag
JuhongLU, yongmingzhou, ChunlongZHENG(**China Mainland**)
- P.13 Application of Broadband Microstrip Patch Antenna as A Perfect Substitute for Monopole Antenna
JinChen, GuangFu, Guang-deWu, shu-xiGong(**China Mainland**)
- P.14 An Improved Broadband Miniaturized loaded Open Sleeve Antenna
JinChen, GuangFu, Guang-deWu, shu-xiGong(**China Mainland**)
- P.15 Numerical Study of Symmetrical Ultra-wideband Antipodal Slot Antenna
WenjunLu, HongboZhu(**China Mainland**)
- P.16 A Novel Wideband and Compact Microstrip Grid Array Antenna
guoshengwang, shuiyanglin, kaifupan, xiaoguangge, yangyang(**China Mainland**)
- P.17 Beam Scanning of Parabolic Cylindrical Spatial Power Combining Antenna
ZeMingXie, ZhaoZhu, ShangshuXiong(**China Mainland**)
- P.18 A Broadband Circular Microstrip Antenna with Two Pairs of Slots
HaihuaWang, CunlongLi, ZhenyaLei, ShaCui(**China Mainland**)
- P.19 Design on Super-Resolution Characteristics of Planar Microstructured Antenna Array
Guang-DingGe, Bing-zhongWang, deshuangzhao, weishao, shuaiding, xiaofeilu(**China Mainland**)
- P.20 Nonuniform Meander-line Monopole Antenna with Back-coupled Patch for WLAN Applications
XiaochuanWang, Wen-zhongLu(**China Mainland**)
- P.21 A Novel Coplanar CPW-Fed Square Printed Monopole Antenna for UWB Applications
ZhangHou, LiGui-yuan, WANGJian, YinXiong(**China Mainland**)
- P.22 A Novel Ultra-wideband Knife-shape TEM Horn Antenna Design for Transient Application
Ling-LuChen, ChengLiao, LeiChang, XuanZheng, GangSu, JianFang(**China Mainland**)
- P.23 A Novel Planar Tree-shaped Fractal Dipole Patch Antenna

- P.24 Xian-fengZeng, Chen-xinZhang, Ya-weiWang, CongXie(**China Mainland**)
A Novel Dual-Frequency Monopole Antenna for WCDMA and 2.5 GHz Extension Band
- P.25 ShuiyangLin, GuoshengWang, kaifupan, xiaoguangge, yangyang(**China Mainland**)
Novel Arc-shaped Antipodal Ultra-wideband Slot Antenna with Low Cross-Polarization Characteristic
- P.26 YongCheng, Wen-junLu, Chong-huCheng, WeiCao(**China Mainland**)
Design of Triple-band LTCC Antenna Using Meander Line Structure for Mobile Handsets
SHUPINGGONG, JINGRUNQU, YUNXIANGHU, QIUYUNFU, DONGXIANGZHOU
(**China Mainland**)
- P.27 Design of an Array with Modified Ultra-wideband Quasi-Yagi Antennas
zhaohuihuang, xingjiang(**China Mainland**)
- P.28 A Novel Super Thin Planar Car Antenna
PengfeiWu, JinmingPei, GuangjunLiang(**China Mainland**)
- P.29 A Planar Ultra-wideband Antenna with Dual Notched Bands Based on SCRLH Resonator
quansun, Yong-JiuZhao, LiQiang, BingLiu, Ji-KangWang(**China Mainland**)
- P.30 A compact linearly polarized antenna array
chenlin(**China Mainland**)
- P.31 Broadband Microstrip Patch Antenna Array Using Stacked Structure
fanzhang, fu-shunzhang, chenlin, GangZhao(**China Mainland**)
- P.32 Research of missile and aircraft base mounted antennas for data transmission
congchen, jieboli, linzhang, haitaochen(**China Mainland**)
- P.33 A NOVEL COMPACT UWB NOTCH-FILTER ANTENNA WITH A DUAL-ARROWHEAD-SHAPED SLOT
junbojiang(**China Mainland**)
- P.34 Design and Optimization of a Small Ultra-wideband Planar Monopole Antenna
yingjiepan, WeiHua, KamaHuang(**China Mainland**)
- P.35 Design the Size Reduction Patch Antenna Based on Complementary Split Ring Resonators
JiajunMa, xiangyucao, TaoLiu(**China Mainland**)
- P.36 The Analysis and Compensation of The Mutual Coupling for The Adaptive Array Antenna
qingzhang, PengZong, R. BecerraDarwin(**China Mainland**)
- P.37 An E-type Microstrip Slot Antenna with Parasitic Patches in Ka-band with LTCC Technology
WeiQuan, BoYan, ZhigangWang, JinhongWang(**China Mainland**)
- P.38 Effects of Random Errors on Directivity of Amplitude-Weighted Line Arrays
JianwuWang, GuoqiNi, BinHuang, ZhiYang(**China Mainland**)
- P.39 A Fourth Wavelength Wideband Folded Half U-slot Microstrip Patch Antenna
zhiweishi, FengChen, YunlinLiu, QianZhang, HuilongWang(**China Mainland**)
- P.40 Design of a TE₂₁-Mode Coupler for Antenna Feeds
YingyiHe, ChuanfeiShe, XianfaTang, BiaoLi(**China Mainland**)
- P.41 Dual Band-Notched UWB Antenna with Parasitic Elliptical Radiation Patch
Jin-GangGong, Yong-ChangJiao, QiaoLi, Ya-BingYang, ShuoGai(**China Mainland**)
- P.42 Wide Band Antenna Array Using Bowtie-shaped Microstrip Patch Antenna
fanzhang, fu-shunzhang, Ya-BingYang, zhengzhang(**China Mainland**)
- P.43 Theoretical calculation and simulation of phase center of a radial line helical array antenna
lilizhe, zhangjianqiong, LiXiangqiang(**China Mainland**)
- P.44 Planar Reflector Antenna Design Based on Gradient-index Metamaterials
Wei XiangJiang, Hui FengMa, Tie JunCui(**China Mainland**)
- P.45 Isosceles Triangle Sierpinski Gasket Antenna's Multiband Analysis with An Iterative Method
QuXinbo(**China Mainland**)
- P.46 Ultra-wideband Planar Monopole Antenna with Triple Band-Notched Characteristics
FengZhou, Zupingqian, JiweiHan(**China Mainland**)
- Radar & Broadband Communication Systems**
- P.47 Path Loss Model Development for Urban Outdoor Coverage of Code Division Multiple Access (CDMA) System in Malaysia
MardeniBinRoslee, LeeYihPey(**Malaysia**)

2010-05-10 AM
Room 1

ORAL Session: B1 (10 presentations)

Solid State Device and Circuits

Session Chair: Jeffrey S. Fu, Guochi Huang

- 8:20 - 8:40 A Millimeter-wave CMOS VCO using a TL inductor with digitally controllable artificial dielectrics
GuochiHuang, Seong-KyunKim, HuaMa, VincentFusco, Byung-SungKim(**United Kingdom**)
- 8:40 - 9:00 A High Performance CMOS Even Harmonic Mixer with a LC Resonant Circuit
JunjunGao, ZhiqunCheng, XuefangZhu, ShengjunXu(**China Mainland**)
- 9:00 - 9:20 High-Repetition and -Stability All-solid State Pulsers Based on Avalanche Transistor Marx Circuit
XuelinYuan(**China Mainland**)
- 9:20 - 9:40 Analysis of the Effects of Parasitic Capacitance and Inductance on Inverse Class E Power Amplifier
FeiYou, SongbaiHe(**China Mainland**)
- 9:40 - 10:00 Differential Oscillator Using Double-Sided Paralell-Strip Line with An Inserted Conductor Plane
HuiTang, Jian-XinChen, Li-HengZhou, Zhi-HuaBao(**China Mainland**)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 Design and Realization of a Ka band Subharmonic Mixer Using Self-designed Schottky diodes
JinchaoMou, WeihuaYu, YongYuan, XinLv(**China Mainland**)
- 10:40 - 11:00 The research of defected ground structure application in Doherty power amplifier
ChangweiChen, KaiyuQin(**China Mainland**)
- 11:00 - 11:20 A Novel Empirical Model for SiC MESFETs with Self-Heating Effect
OupengLi, WenHuang, YunchuanGuo, YongboChen, RuiminXu(**China Mainland**)
- 11:20 - 11:40 W-BAND INDUCTIVE HIGH ORDER FREQUENCY MULTIPLIER BASED ON SILICON AVALANCHE DIODE
minghuazhao(**China Mainland**)
- 11:40 - 12:00 Prospects of CMOS Technology for Millimeter-wave Radio-over-fiber Applications
YongZhang, ThomasT.Y.Wong(**China Mainland**)

2010-05-10 AM
Room 2

ORAL Session: B2 (10 presentations)

Low-Noise Devices and Techniques, High-Power Devices and Techniques

Session Chair: Yongxin Guo, Xiaohong Tang

- 8:20 - 8:40 Mobile Space-Charge Effects on THz-Frequency Characteristics and Parasitic Series Resistance of InP IMPATT Device at Elevated Junction Temperature
Moumita Mukherjee (**India**)
- 8:40 - 9:00 A Simple Method for Tunable Load Impedance Matching Network of Power Amplifier
Zhebin Wang, Shengjie Gao, Chan-Wang Park (**Canada**)
- 9:00 - 9:20 GaN Technologies and Developments: Status and Trends
Michael Buchta, Klaus Beilenhoff, Herve Blanck, James Thorpe, Reza Behtash, Sylvain Heckmann, Helmut Jung, Zineb Ouarch, Marc Camiade (**Germany**)
- 9:20 - 9:40 Impact of Bias Current and Geometry on Noise performance of SiGe HBT Low Noise Amplifier
Hongyun Xie, Wanrong Zhang, Pei Shen, Liang Chen (**China Mainland**)
- 9:40 - 10:00 Design of a High Power Digital Tunable Filter
kunhe Chen, Zhang Chen, Lei Zhu (**China Mainland**)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 The Design of a Vlasov Mode Converter for 94GHz TE₀₂ Mode Gyrotron
Bin Wang, Chao-Hai Du, Pu-Kun Liu, Zhi-Hui Geng, Shou-Xi Xu (**China Mainland**)
- 10:40 - 11:00 Computer Simulation of a Novel Electron Gun with a Magnetic Reversal Field
Xinhui Wu, Jiayin Li (**China Mainland**)
- 11:00 - 11:20 Numerical Simulation of a Planar-Electrostatic-Wiggler Field Distribution and Modulation on Relativistic Electrons
Yan-Yan Kong (**China Mainland**)
- 11:20 - 11:40 A thermal design methodology for power SiGe HBTs with non-uniform emitter finger spacing
D. Y. Jin, W. R. Zhang, L. Chen, N. Hu, Y. Xiao, R. Q. Wang (**China Mainland**)
- 11:40 - 12:00 A Novel Broadband Class E Power Amplifier with Inductance Feedback
Xiang Li, Wenhua Chen, Zhijun Zhang, Zhenghe Feng (**China Mainland**)

2010-05-10 AM
Room 4

ORAL Session: B4 (10 presentations)
Passive Devices and Circuits, Photonics and Optics
Session Chair: Hao Zhang, Wei Shao

- | | |
|---------------|--|
| 8:20 - 8:40 | Automated EM-Based Design of Side-coupled Filters and Multiplexers by Parameter Extraction and Sensitivity Analysis
yizhang, XinsheYin, KunkunDong(China Mainland) |
| 8:40 - 9:00 | An Ultra-Wideband Bandpass Filter Using Cross-Shaped Triple-Mode Resonator
XuehuiGuan, ShanJiang, PengChen, LiShen, DechangHuang, HaiwenLiu(China Mainland) |
| 9:00 - 9:20 | Design of Low Loss Multi-Open-Stub Phase Shifter
ChenGong, QiZhu, ShanshanLi, TingxiaLi(China Mainland) |
| 9:20 - 9:40 | 5-way Branch Line Power Divider on Planar Structure
YanliChen, QiZhu, PanpanChen, XiaojuYu(China Mainland) |
| 9:40 - 10:00 | SSOR Preconditioned Far-field Expansion AIM for the Analysis of Planar Microstrip Structures
C.Qian, Z.H.Fan, D.Z.Ding, RushanChen, W.Zhuang(China Mainland) |
| 10:00 - 10:20 | (Tea Break) |
| 10:20 - 10:40 | A Cross-Shaped Stepped-Impedance Resonator Bandpass Filter with Wide Stopband
ShanJiang(China Mainland) |
| 10:40 - 11:00 | A Microstrip Dual-Band Bandpass Filter Based on a Novel Admittance Inverter
ShanJiang(China Mainland) |
| 11:00 - 11:20 | Novel Dual-Mode Square-Loop Resonator Filter Using Spurline and Slot Techniques
HaiwenLiu, LiShen, ZhichongZhang, LiyunShi, DechangHuang, ShanWang(China Mainland) |
| 11:20 - 11:40 | Transmission Characteristic Control of Dual-Mode Filter Using Spurline Technique
HaiwenLiu, ZhichongZhang, ShanWang, JingWan, YangJiang, LuZhu(China Mainland) |
| 11:40 - 12:00 | Simplified Treatment for Radiation Mode in Coupled-mode Analysis
LiYANG, Lin-LinXUE(China Mainland) |

2010-05-10 AM
Room 5

ORAL Session: B5 (10 presentations)

Computational Electromagnetics

Session Chair: Yijun Feng, XiaoFang Zhu

- 8:20 - 8:40 A novel algorithm for transient eddy current problems
WeiZhao, YongDuan, FengRong, Sheng-jianLai(**China Mainland**)
- 8:40 - 9:00 Combined MDA-SVD-MLFMA for Analyzing the EM Scattering of Complex Objects
Z.N.Jiang, Z.H.Fan, X.Q.Hu, Y.Sun, RushanChen(**China Mainland**)
- 9:00 - 9:20 Incomplete LU Factorization Preconditioner for the Efficient Solution of Improved Electric Field Integral Equations
H. H.Zhang, Z. H.Fan, RushanChen(**China Mainland**)
- 9:20 - 9:40 Augmented MLFMM for solving the electromagnetic scattering problems with fine structures
M.Chen, D.Z.Ding, RushanChen, X.Q.Hu(**China Mainland**)
- 9:40 - 10:00 A Multiresolution Basis for Analysis of Scattering Problems
JianjunDing, D.Z.Ding, JianZhu, RushanChen(**China Mainland**)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 A Modified Spectral Shift Preconditioner for Electromagnetic scattering of Complex Objects
X.Q.Hu, M.Chen, RushanChen, D.Z.Ding(**China Mainland**)
- 10:40 - 11:00 Electromagnetic Analysis of Electrically Large and Arbitraried Shaped FSS Using Hybrid VSIE Combined with Parallelized MLFMM
S. F.Tao, D. Z.Ding, RushanChen, M.Chen(**China Mainland**)
- 11:00 - 11:20 A Parallelized Domain Decomposition Method with Conformal PML for Solving Electromagnetic Scattering Problems
YueShi, Y.J.Sheng, D.F.Zhou, RushanChen(**China Mainland**)
- 11:20 - 11:40 Higher-Order FETD Method Combined with Domain Decomposition Algorithm Analysis of Substrate Integrated Waveguide Structures
MinLi, Z. B.Ye, L.Du, RushanChen, Y.Yang(**China Mainland**)
- 11:40 - 12:00 Truncated Size of the Rough Surface for Calculating the Backscattering RCS from Combined Objects
XiaoYanZhang(**China Mainland**)

Solid State Device and Circuits

- P.1 A Ultra-high Speed 12 Demultiplexer in SiGe-HBT technology
zhengfeiHu, YingmeiChen(**China Mainland**)
- P.2 A Broad-Band Analog Phase Shifter Design on I-Q Vector Modulator
junyin, wanshunjiang, zhigangzhang(**China Mainland**)
- P.3 Design and Optimization Dual Modulus Prescaler Using the Extended True-Single-Phase-Clock
chaoguo, sihengzhu, junhu, jingdiao, houjunsun, XinLv(**China Mainland**)
- P.4 Designing 3.125 GHz Bang-Bang PLL for Clock Recovery in 6.25 Gbps Backplane
Communication Receiver
zhoumingzhu, sunlingling, wangguangyi, liujun, wenjingcai, wangjie(**China Mainland**)
- P.5 The performance of thin barrier InAlN/AlN/GaN MIS HEMT with high Dielectric Insulators
JianjunZhou, XunDong, HaiqiLiu, TangshenChen, ChenChen(**China Mainland**)
- P.6 Design of 1:3 Unequal Wilkinson Power Divider with Defected Ground Structure
TaoFeng, JunXu, YanMaoWang(**China Mainland**)

Low-Noise Devices and Techniques

- P.7 Analysis of Phase Noise Spectrum in LC Oscillator based on Nonlinear Method
ZhipengLi, JingfuBao, PuyingTang, FeiWang(**China Mainland**)
- P.8 A Wideband Low-Noise-Amplifier with Compact Size and Improved Bandwidth
LeiWu, MengxiaYu(**China Mainland**)
- P.9 Design of an Ultra Low Noise Amplifier for Mobile Communication in Higher Frequency Band
lizhao, zhiqiangYu, jianyiZhou(**China Mainland**)

High-Power Devices and Techniques

- P.10 SOI SJ-LDMOS with Added Fixed Charges in Buried Oxide
wenlianwang(**China Mainland**)
- P.11 Design and thermal analysis of SiGe HBT with segmented emitter fingers and non-uniform
segment spacing
LiangChen, Wan-rongZhang, Dong-yueJin, YingXiao, Ren-qingWang, NingHu(**China
Mainland**)
- P.12 Design of THz, TM-Mode Coaxial Bragg Reflector for CARM Oscillators
ChaiBin, ZhangShi Chang(**China Mainland**)
- P.13 The High-Power Radial Line Helical Circular Array Antenna: Theory and Development
xiangqiangLI, QingxiangLIU, JianqiongZHANG, LiuZHAO, ZhengquanZHANG(**China
Mainland**)
- P.14 Design and Optimization of a Coaxial Bragg Resonator for a 350 GHz Cyclotron
Autoresonance Maser (CARM) Oscillator
qixin, ShiChangZhang(**China Mainland**)
- P.15 Analysis and Solution of Errors in Feedback Path of a Complex Gain Baseband Predistorter
ZhangChen, KunheChen, DeruiFan(**China Mainland**)
- P.16 Parameter Extraction of SOILD MOS based on the HISIM-HV model
TianleMiao, WenJunLi, HuangWang, XudanShentu, JunLiu, linglingSun(**China Mainland**)
- P.17 On-line Monitoring Technology for High-power Amplifier
SenWang, EnLi, Gao-FengGuo, YangZhou(**China Mainland**)
- P.18 Design of the 4-element rectangle Radial Line Helical Array Antenna
zhangjianqiong, LiuQingxiang, LiXiangqiang, ZhaoLiu(**China Mainland**)

Monolithic Integrated Circuits

- P.19 A 5.25GHz GaAs PHEMT Power Amplifier for 802.11a Application
YanjunPeng, K.F.Tsang, LingSun, HuaxiangLu, YanjinLi, WeipingJing(**China Mainland**)

Passive Devices and Circuits

- P.20 An improved method for TRL calibration
YuLiu, YuTian, BoGao, LingTong(**China Mainland**)

- P.21 An Substrate Integrated Waveguide Filter with Source-Load Coupling
RongqiangLi, XiaohongTang, FeiXiao(**China Mainland**)
- P.22 A Novel Broadband Transition of Rectangular Waveguide-to-Coplanar Waveguide without Dielectric Substrate
jianqindeng(**China Mainland**)
- P.23 A Frequency-Independent Equivalent Circuit Model for Planar Symmetric Balun in CMOS RFICs
JiajuWei, ZhigongWang(**China Mainland**)
- P.24 Design of a Compact Ultra-Wideband Bandpass Filter with Two Notched Bands
FengWei, lichen(**China Mainland**)
- P.25 Design and Performance of a W-Band Microstrip Rat-Race Balanced Mixer
WeiZhao, YongZhang, MingzhouZhan(**China Mainland**)
- P.26 A Compact Folded Interdigital Bandpass Filter Using LTCC Technology
YeTian, ShuipingZhou, BoYan(**China Mainland**)
- P.27 A Novel Spiral Inductor Model with a New Parameter-Extraction Approach
LiangChen, ZhiqunLi, QinLi, LiZhang, WeiLi(**China Mainland**)
- P.28 Calculations and Design of A Third Harmonic Cavity for Increasing the Beam Lifetime
GuangchaoLiu, Cong-FengWu(**China Mainland**)
- P.29 Ultra-Wideband Bandpass Filter Using Novel CMRC with Improved Out-Of-Band Performances
ZhongLi(**China Mainland**)
- P.30 A Novel Compact Size Microstrip Equalizer Based on Spiral Resonators
ShengTang, YongZhang, JingZhang(**China Mainland**)
- P.31 Analysis and Design of Spiral Inductor Based on the Particle Swarm Optimization Algorithm
YantaoGuo, QunshengCao(**China Mainland**)
- P.32 Design of a wideband transition from double-ridge waveguide to microstrip line
YangZhou, Hong-xiuLiu, EnLi, Gao-FengGuo, TaoYang(**China Mainland**)
- P.33 A Novel Microstrip Triple-Mode Wideband Bandpass Filter Using Radial-Line Stubs
LongZhang, ZhiYuanYu, LongGuo(**China Mainland**)
- P.34 Compact, Broadband Waveguide-to-Microstrip Transition Using Slotline Antenna
Mao-huiYang, JunXu, QingZhao, Gui-PingLi, LinPeng(**China Mainland**)
- P.35 Design of a Novel Harmonic-Suppressed Wideband Microstrip Bandstop Filter
jifu, HaoquanHu(**China Mainland**)
- P.36 Design of a Novel Compact Wideband Bandpass Filter with Shunt Open-circuited Stubs
jifu, HaoquanHu, JunXu, MaohuiYang(**China Mainland**)
- P.37 A Compact Broadband Multi-Layer In-Phase Power Divider
QiaoLi, Jin-GangGong, Xiao-weiShi, Xin-HuaiWang, FengWei(**China Mainland**)
- P.38 A Compact Microstrip Wideband Bandpass Filter with Excellent Out-band Performance
Yan-liangWU, ChengLiao, Xiang-zhengXIONG, Yan-minDuan, qunyang, Xiao-yongXIA(**China Mainland**)
- P.39 A LTCC Cross-Coupled Bandpass Filter for Millimeter-Wave Integrated Module
YinqiaoLi, JianhuaJi, ShaHUAN, YuanchunFei, JianmingZhou(**China Mainland**)
- P.40 Design of Broadband Orthomode Transducer Based on Double Ridged Waveguide
Tian-LingZhang, Ze-HongYan, LeiChen, Fang-FangFan(**China Mainland**)
- P.41 Novel Dielectric Wedge Phase Shifter for 3G Mobile Basestation Antennas
ShaohuaKan, YonghuiTao, GangWang(**China Mainland**)
- P.42 Design of Microstrip Tapped-Hairpin Dual-Band Pass Filter for Ku-Band Application
qunyang, Xiang-zhengXIONG, Yan-liangWU, Li-pingWANG, Hua-qingXIAO(**China Mainland**)
- P.43 Scattering Parameters Analysis of the Vertical Interconnected Via in Microwave Multilayer Circuits
YuTian, BoGao, LingTong(**China Mainland**)
- Computational Electromagnetics**
- P.44 New Study on Arbitrarily V-shaped Groove Guide
YinqinCheng, GuojianLi, FuyongXu(**China Mainland**)
- P.45 Grid-Cell Combination in 3D-FDTD Modeling of ELF Propagation of the Earth
HangangXia, YiWang, QunshengCao(**China Mainland**)
- P.46 Parallelized ADI-FDTD Algorithm for Attenuation Constant Extraction by Using OpenMP Library
Ke-DiZhang, WeiShao, Bing-ZhongWang(**China Mainland**)

- P.47 A Modified NPML Scheme for Truncating Anisotropic Dispersive Medium
WangYijun, YangLixia, LiangQing, WangGang(**China Mainland**)
- P.48 Analysis of Substrate Integrated Waveguide Based on Two Dimensional Multi-Port Method
ElnazAbaei, EsfandiarMehrshahi, HamidrezaSadreazami(**Iran**)
- P.49 Analysis of H-shaped patch antenna by Wave concept iterative procedure (WCIP)
Wu-shengJi, Quan-zhenLuo, FanYang(**China Mainland**)
- P.50 A Weakly Conditionally Stable Finite-Difference Time-Domain Method for Simulation of Resonant Cavity
ShuaiNiu, yangyang, RushanChen, ShaobinLiu(**China Mainland**)
- P.51 Breakdown Characteristics of Ultra-wideband High-power Microwave Transmission through the Lower Atmosphere
TaoTang, ChengLiao, PengchengZhao, QingminGao, YanliangWu(**China Mainland**)
- P.52 Stability Analysis of Difference Scheme for High Power Microwave Atmosphere Propagation Model
QingminGao, WenbinLin, TaoTang, PengchengZhao, ChengLiao(**China Mainland**)
- P.53 A Novel High-order Scheme for Time Domain Maxwell's Equations
jianyingwang, jianyanguo, kezhang, kunwang, yunlianglong(**China Mainland**)
- P.54 The Simulation and Experiment Research on Radiation of Dipole antenna in GTEM Cell
Shu-guangXING, JiLI, Shu-fangLI, Wen-jianWANG(**China Mainland**)
- P.55 Monostatic Microwave Imaging of 2D Conductor Based on Time-Domain Finite Element
KunLiu, guoHongDu, ChengLiao(**China Mainland**)
- P.56 Analysis of Wide-Band Aperture-Coupled Microstrip Antenna Array by CN-FDTD
YuNai, RuinaXing, DanSun(**China Mainland**)
- P.57 Static-Field Problems Solved by RBF-MLM with Natural Conformal Node Distribution
ShengjianLai, BingzhongWang, YongDuan(**China Mainland**)
- P.58 Volume Scattering of 3-D Discrete Scatterers by Using UV Multilevel Partitioning Method
YunhuaTan, BochengZhu, LezhuZhou(**China Mainland**)
- P.59 The Application of Aggressive Space Mapping Algorithm in Microstrip Patch Antenna Design
FengChen, ZhiweiShi, XiDeng, JingpingSong, YunlinLiu(**China Mainland**)
- P.60 GPU-Based Accelerated FDTD Simulations for Double Negative (DNG) Materials Applications
shenchen(**China Mainland**)
- P.61 An Efficient Splitting the Plane-wave FDTD Method
WangHui, HuangZhiXiang, WuXianLiang, LiuXiaoYong(**China Mainland**)
- P.62 Acceleration of Time-Domain Finite-Element Method in Electromagnetic Analysis with OpenMP
BenSun, LanlanPing, xiaoxianghe(**China Mainland**)
- P.63 Analysis on resonant characteristic of HE₁₁₁ mode
BinzhaoCao, XiaoxiaoLi, JingzhongCui, ZhongleiMei(**China Mainland**)

2010-05-10 PM
Room 1

ORAL Session: C1 (11 presentations)

Passive Devices and Circuits

Session Chair: Shunyou Qin, Yunqiu Wu

- 13:30 - 13:50 An Ultra Wide Band Power Divider/combiner Based on Y-structure Waveguide
chenhuilin(**China Mainland**)
- 13:50 - 14:10 Novel Dual-Band Hybrid Coupler Using Improved Simplified CRLH Transmission Line Stubs
Jian-qiangGong, Chang-HongLiang(**China Mainland**)
- 14:10 - 14:30 A Compact Quasi-Lumped LTCC Diplexer for Radar Application
zhengweiwang(**China Mainland**)
- 14:30 - 14:50 Study of L-band Miniature Lumped Element LTCC Band-pass Filter
zhengweiwang(**China Mainland**)
- 14:50 - 15:10 Design of improved quad-ridged orthomode transducers
ZhongZhuang, BinLi, QingyuanFan(**China Mainland**)
- 15:10 - 15:30 Wideband Antenna and Wideband Bandpass Filter for Wearable Systems
ShanshanGao, ShaoqiuXiao, BingZhongWang, XinheXu(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 A Ku Band Waveguide Bandpass Filter with E-Plane Metallic Diaphragm
GuoqiangZhao, ZhuoZhang, XinLv, HoujunSun(**China Mainland**)
- 16:10 - 16:30 Design of Unbalanced and Balanced Radio Frequency Bulk Acoustic Wave Filters for TD-SCDMA
HaoZhang, WeiPang, WeikaiChen, ChongZhou(**China Mainland**)
- 16:30 - 16:50 Design of Compact Microstrip Dual-mode Filter with Source-Load Coupling
jiani, jianpengwang, yong-xinguo, wenwu(**China Mainland**)
- 16:50 - 17:10 Accumulation-Mode MOS Varactor Modeling for RF Applications Valid up to 40GHz
JiaweiHu, ZhiqunLi, QinLi, WeiLi, LiZhang(**China Mainland**)
- 17:10 - 17:30 A Novel Compact Ultra-wideband Bandpass Filter Using Dumbbell Stubs
lichen, FengWei, XiaoWeiShi, YaDongWu, XinHuaiWang(**China Mainland**)

2010-05-10 PM
Room 2

ORAL Session: C2 (11 presentations)
**Computer Aided Design, Instrumentation and Measurement Techniques,
Electromagnetic Field Theory**
Session Chair: Xiaodong Chen, Min Gu

- 13:30 - 13:50 Optimization Based on Genetic Algorithm and HFSS and Its Application to the Semiautomatic Design of Antenna
SiyangSun, YinghuaLv, JinlingZhang, ZhidongZhao, FangmingRuan(**China Mainland**)
- 13:50 - 14:10 Calculation of the characteristic impedance of TEM horn antenna using support vector machine
mingu, fengyang(**China Mainland**)
- 14:10 - 14:30 Error Analysis and Uncertainty Evaluation in Microwave High Power Measurement
HaoZhao(**China Mainland**)
- 14:30 - 14:50 Linearity Analysis of Direct Digital Chirp Synthesizer in the Presence of Amplitude Quantization
YuanYao, JianfengZheng, ZhengheFeng(**China Mainland**)
- 14:50 - 15:10 Study on modern signal process and analysis for radiated EMI noise mechanism diagnosis
Xiao-huiQiu, Yun-juanPin, YangZhao, WeiYan, Yong-chaoLuo, RongRong, FengWen(**China Mainland**)
- 15:10 - 15:30 A Practical Noise Parameter Measurement Method of Packaged Low Noise Transistor
DiLiu, WeiZhou, YudongWang, JunFu, GaoqingLi, JieCui(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 A Fast-measuring Method on Total Isotropic Sensitivity Based on Data Predication
HonglongCao(**China Mainland**)
- 16:10 - 16:30 A Portable Antenna VSWR Meter Based on Integrated Detector and Its Calibration Method
jisongyang, lipengzhou(**China Mainland**)
- 16:30 - 16:50 New Design of Double-core QCM System
HaifengJiang, YumingBo(**China Mainland**)
- 16:50 - 17:10 A Novel High-Order Finite-Difference
jinzhao(**China Mainland**)
- 17:10 - 17:30 Huygens Subgrid Technique for FDTD Analysis of Plasma Problems
JiaoXie, YangYang, LiuShaoBin(**China Mainland**)

2010-05-10 PM
Room 3

ORAL Session: C3 (11 presentations)

Microwave Antennas

Session Chair: Xiaoxin Yin, Minghua Zhao

- 13:30 - 13:50 MMIC Compatibility Study of SIW H-plane Horn Antenna
Chin-IYeh, Dong-HuaYang, Tsung-HanLiu, JeffreyS.Fu, Kuo-ShengChin, Jui-ChingCheng, Hsien-ChinChiu, Chih-PinKao(**Taiwan**)
- 13:50 - 14:10 Application of Parallel Integer Coded Differential Evolution Strategy on Ultra-Wide Band TEM Horn Antenna
LeiChang, ChengLiao, XuanZheng, Ling-LuChen, GangSu(**China Mainland**)
- 14:10 - 14:30 Integrated Design of Wide-Band Wide-Scan Phased Array Antenna and Couple Line
changningwan, hongchaowu, chenhaixia(**China Mainland**)
- 14:30 - 14:50 Antenna with Omnidirectional E-plane Radiation Pattern Based on TE₀₁ Mode Circular Waveguide For Ka Band Applications
Han-QingMA, TaoFENG, YuanFU(**China Mainland**)
- 14:50 - 15:10 Substrate Integrated waveguide Feeding Antipodal Linearly Tapered Slot Antenna with Reduced Mutual Coupling
Han-QingMA, JiaochengZHAO, BinLi(**China Mainland**)
- 15:10 - 15:30 Design and Simulation of Ultra-wideband Double-Ridged Horn Antenna
HengfeiXu, YangZhou, EnLi, HongxiuLiu, QingWang, ZimingZhong(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Design of Triple-Band CPW-Fed Planar Monopole Antenna Using FDTD Method
zengruili, huanbinjiang, huizhang, limeiluo, qingxinguo, junhongwang(**China Mainland**)
- 16:10 - 16:30 A Microstrip Wide Slot Antenna with Band Notching Property for Ultra-Wideband Application
zengruili, dongyuxie, huizhang, qingxinguo, junhongwang(**China Mainland**)
- 16:30 - 16:50 A Novel Wide Beam UWB Antenna
JiadiWang, LingyunZhou, WeidongChen(**China Mainland**)
- 16:50 - 17:10 The Propagation Wavenumber for Microstrip Line in the First Higher-Order Mode
JuhuaLiu, DavidR.Jackson, PengLiu, JianyingWang, yunlianglong(**China Mainland**)
- 17:10 - 17:30 Miniature Omni-directional Ultra-wideband Antenna
cunshunyang, QinggongGuo, KamaHuang(**China Mainland**)

ORAL Session: C4 (11 presentations)

Microwave and Millimeter Wave Systems

Session Chair: Le-Wei Li, Changwei Chen

- 13:30 - 13:50 A Millimeter-Wave Frequency Synthesizer Architecture with High Agility and High Resolution Performance
YangYuanwang, CaiJingye, LiuLianfu(**China Mainland**)
- 13:50 - 14:10 A Compact Highpass Filter with Broad Passband
DesenLu, QingyuanWang, AoLiao, XianrongZhang(**China Mainland**)
- 14:10 - 14:30 A Transceiver for Ku Band Digital Monopulse Radar System
ZhuoZhang, GuoqiangZhao, XingyaoZeng, HoujunSun, XinLv(**China Mainland**)
- 14:30 - 14:50 Measurement and Performance of Digital Monopulse Radar Array Antenna
ZhuoZhang, GuoqiangZhao, XingyaoZeng, HoujunSun, XinLv(**China Mainland**)
- 14:50 - 15:10 An Improved High-Frequency-Raised Inversion Algorithm for Radar Imaging
LinfengHe, QingxiaLi, YiLeng, JianDong, GuopingHu(**China Mainland**)
- 15:10 - 15:30 Millimeter Wave Beam Tilting Array for Radar System
borenzheng, ZhiqinZhao, DakuiWu(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Design of a KU-band PLL Frequency Synthesizer
guanglei(**China Mainland**)
- 16:10 - 16:30 The Research of Broadband Millimeter-Wave Vivaldi Array Antenna Using SIW Technique
LiBin, DongLiang(**China Mainland**)
- 16:30 - 16:50 A Ka-band T/R Front-end for Phased Array Radar
guipingli(**China Mainland**)
- 16:50 - 17:10 Illumination Method for Millimeter Wave Imaging Indoors
xiangshi(**China Mainland**)
- 17:10 - 17:30 Improving coal mine wireless-communications performance based on MIMO technology
Zong-jiuZHU, Shan-huaYAO(**China Mainland**)

2010-05-10 PM
Room 5

ORAL Session: C5 (11 presentations)

Microwave Antennas

Session Chair: Chen Xing, Feng Zhao

- 13:30 - 13:50 Design and Analysis of Ultra Wideband Parasitic Annular Slot Antenna with Matching Network for Wireless Applications
YasserM.Madany(**Egypt**)
- 13:50 - 14:10 Design and Analysis of Multiband Enhancement Rectangular Microstrip Antenna Using a Via and Photonic Band-Gap Structures
YasserM.Madany(**Egypt**)
- 14:10 - 14:30 A Wideband Pattern Reconfigurable Antenna With Compact Switchable Feed Structure
YueLi, ZhijunZhang, ZhengheFeng, MagdyIskander, RuihongLi(**China Mainland**)
- 14:30 - 14:50 A Meander Annular-Ring Slot Antenna for Circularly Polarized Radiation
MengJi, ZhijunZhang, ZhengheFeng, RuihongLi(**China Mainland**)
- 14:50 - 15:10 Parabolic Curved Reflector Antenna for Spatial Power Combining
ShangshuXiong, ZeMingXie, QingxinChu(**China Mainland**)
- 15:10 - 15:30 Compact annular patch monopole antenna for WLAN application
JiweiHan, WeipingDing, FeiChen(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Shared-Aperture Ku/Ka Bands Microstrip Array Feeds for Parabolic Cylindrical Reflector
GuomingGao, YumeiZhang, AngLi, JimingZhao, HangCheng(**China Mainland**)
- 16:10 - 16:30 Design of a Dual-Feed Orthogonal Polarized Patch Antenna Array
QianYe, DanpingWang, MinWang, wenwu, JianzhongZhao(**China Mainland**)
- 16:30 - 16:50 A Broadband Microstrip Dipole Antenna Loaded with Shorted Pin
WenquanCao, BangningZhang, HongbinLi, TongbinYu, AijunLiu(**China Mainland**)
- 16:50 - 17:10 A Novel Kind of Bluetooth and UWB Antenna
KaizhongZhan, QinggongQuo, KamaHuang(**China Mainland**)
- 17:10 - 17:30 X-Band Linear Polarized Aperture-Coupled DRA Reflectarray
Abd-ElhadyMahmoudAbd-Elhady, S.H.Zainud-Deen, A.A.Mitkees, A.A.Kishk(**China Mainland**)

Monolithic Integrated Circuits

- P.1 Design of a 4-12GHz Frequency Doubler MMIC based on InGaP/GaAs HBT Process
YonghuiWu, XingChen, HongjiangWu, BinLiao(**China Mainland**)
Packaging, Interconnects, and MCMs
- P.2 Research on Si-based MEMS Process in Development 3D Millimeter-Wave Multi-Chip Module Package
LiangWu, HuajiangWang, JiajieTang, QianRong, yangHou, WeiWang, HaoSun, LingyunLi, XiaoweiSun, LeLuo(**China Mainland**)
- P.3 Design and Implementation of a LTCC-Based receiver front-end module
Zhong-yunLi, Geng-huaZeng, PengChen, Jian-yuYang(**China Mainland**)
Computer Aided Design
- P.4 Linear Array Thinning Based on Orthogonal Genetic Algorithm
LiZhang, YongChangJiao, FuShunZhang, HongLi(**China Mainland**)
- P.5 Design and analysis of a dielectric radiator for microwave chemical reactor
lihu, feimiao, weihua, kamahuang(**China Mainland**)
- P.6 Modeling Approach for Distributed RF MEMS Phase Shifter based on IA-BP Neural Network
GuohuiYang, QunWu, JiahuiFu, FanyiMeng(**China Mainland**)
- P.7 Frequency dependent transmission characteristics of microstrip line on the finite width ground
BoGao, TongLing, XunGong(**China Mainland**)
- P.8 Design of a Modified Monopole Antenna Using PSO Based on FEKO for Wireless Communications
chenlin(**China Mainland**)

Instrumentation and Measurement Techniques

- P.9 A New Method of Measuring Insertion Loss for Antenna Feed Network
Shunyou QinWen-jing ZhangBiao Du(**China Mainland**)
- P.10 Methods of Weak Signal Detection in Microwave Power Measurement and the Implementations
HaoZhao(**China Mainland**)
- P.11 Study of nonlinear modeling for microwave diode based measurement
anhuiLiang(**China Mainland**)
- P.12 Measurement and Prediction of Dielectric for Liquids Based Artificial Nerve Network
MingLuo, KamaHuang, TianlePu, BoWang, LijunYang(**China Mainland**)
- P.13 The Study of Nonlinear Scattering Functions and X-parameters
GuoquanSun(**China Mainland**)
- P.14 The Method of Microwave Power Amplifier Model Parameter Test Based on the Larger-signal Scattering Function
ZhangChao, NianFuShun, LiangShengLi, CaoZhiYing(**China Mainland**)
- P.15 Extracting the conductivity of ferromagnetic thin films by using support vector regression
YunqiuWu, ZongxiTang, YuehangXu, BiaoZhang(**China Mainland**)
- P.16 Comprehensive Measurements on Body Channel Characteristics of Human Body Communication
XinzhuoLiu, XianqingYang, YuanWang, LeiWang(**China Mainland**)

Electromagnetic Field Theory

- P.17 The Mutual Effect Of The Microstrip Discontinuities
MengZhang(**China Mainland**)
- P.18 Scattering Fields of shaped beam incidence on a conducting infinite cylinder with dielectric coating
MingJunWang(**China Mainland**)

Microwave Antennas

- P.19 Band-Notched UWB Planar Monopole Antenna Using a Novel Segmented Circular Patch
ZhangKe, ZhangChaoqun, WangJianying, LongYunliang(**China Mainland**)

- P.20 Wide-Band and Low Cross Polarization Conformal Array with Microstrip Parasitic-Dipole Antenna
BaiYan-Ying(**China Mainland**)
- P.21 A Novel Frequency Scanning Monopulse Microstrip Antenna Array
HaoWang, JingNi, WeizhaoSun, XiaofengMa, WeixingSheng(**China Mainland**)
- P.22 Design of a Wideband Quasi-Yagi Microstrip Antenna with Bowtie Active Elements
KeJiang(**China Mainland**)
- P.23 Performance Analysis of Horizontal Dipole Antennas above a Wall
ChaomanTan, GuanghuaLu, LingyunZhou, QinlongLu(**China Mainland**)
- P.24 Bandwidth-enhanced of a planar switched parasitic array antenna
zhaokainan(**China Mainland**)
- Smart Antennas, Phased and Active**
- P.25 A Novel Batwing Microstrip Array Antenna
yunhonghe(**China Mainland**)
- P.26 Development and Investigation of Reconfigurable Plasma Antennas
ZhaoyangDai, ShaobinLiu, YUChen, NanGao(**China Mainland**)
- P.27 Comprehensive Performance Analysis of Power-Inversion Algorithm Used in GPS Adaptive Arrays
JianminXu, NaXu, JunHua, ChunyunSong(**China Mainland**)
- P.28 Design of Low Cost 4 Ports Microstrip Line Phase Shifter
tingtingliu(**China Mainland**)
- P.29 A Novel Ring Antenna with Pattern and Frequency Reconfigurability
hanglan, anguoWang, nanliu(**China Mainland**)
- P.30 Smart Antenna Design for GPS_GLONASS Anti-jamming Using Adaptive Beamforming
Xin-HuaiWang, Xiao-WeiShi, PingLi, Yan-FuBai, BoLiu, RuiLi, Hao-JiaLin(**China Mainland**)
- Scattering and Propagation**
- P.31 Scattering Characteristic from a Cylindrical Salisbury Screen with Irad
ChongHuaFang, HuiTan, QiZhang, DaGangXie(**China Mainland**)
- P.32 Analysis of Scattering Characteristics for Strip Grating Sandwiched between Multi-Dielectric Layers under Oblique Incidence and Its Applications in Circular Polarizers
WeihaiFang, FengNian, LiZhang(**China Mainland**)
- P.33 Using time reversal technique to restore source image
ShuaiDing, BingzhongWang, Guang-DingGe, GangZheng, XiaofeiLiu(**China Mainland**)
- P.34 Analysis of Time Reversed Electromagnetic Wave Propagation with FDTD Method
WeiShao, xiaofeilu, Bing-ZhongWang(**China Mainland**)
- P.35 Spatial Correlation of MIMO Channel in the Indoor Environment
ZhouranSong, ZhengweiDu(**China Mainland**)
- P.36 Hollow copper waveguides for THz wave
QiongzhouChen, HongSu, HangZhou, ShuangchenRuan(**China Mainland**)
- P.37 Multiple Time-Domain Diffraction of Plane Waves by an Array of Perfectly Conducting Wedges for UWB signals
PengLiu, YanJianGuo, HuajuLiu, YingJianWang, LiangYunLong(**China Mainland**)
- P.38 Surveillance and Inversion of Regional Atmospheric Duct From Multiple Radar Stations
Jin-PengZhang, Zhen-senWu, Rong-XuHu, CuiDong(**China Mainland**)
- P.39 Absorption Properties of Electromagnetic Waves in Multi-layered Collisional Plasma
LinZhao, HuiXie, LongGenZheng(**China Mainland**)
- P.40 An Improved Method of Extracting Permittivity Combined SVM and Waveguide Theory
xiaohuaibao, LuGuizhen, ZhangLi, Lixiaoru(**China Mainland**)
- P.41 A Statistical MIMO Channel Model with Space-polarization Diversity
LinHai, Ye-rongZhang(**China Mainland**)
- P.42 A Refined Composite Surface Model for Numerical Investigation of Backscattering from Wind-driven Sea Surface
DingNie, MinZhang, Xiang-YangZhang(**China Mainland**)
- P.43 Scattering-Based I/Q Signal Simulation of Sea Clutter Returns
HuiChen, MinZhang, Hong-ChengYin(**China Mainland**)
- P.44 An Efficient Technique for Extracting Singularity Arising in RCS Computation of Cylindrical Antenna
JingLi, YufaSun(**China Mainland**)
- P.45 Fast Two-Dimensional Imaging of Scattering Centers Using the Nonuniform FFT
ShiyongLi(**China Mainland**)

- P.46 Research on the One-Dimensional Randomly Gradient Index Coating
XinmiYang, QiangCheng, Tie JunCui(**China Mainland**)
Microwave Remote Sensing and Sensors
- P.47 Application of the Differential Evolution Algorithm to the Optimization of Two-Dimensional Synthetic Aperture Microwave Radiometer Circle Array
kunchao, ZhenweiZhao, ZhensenWu, RuiLang(**China Mainland**)
- P.48 Ionospheric Anomalies Detected by GPS TEC Measurements during the 15 August 2007 Peru Earthquake
YuhuaZou, TaoZhao(**China Mainland**)
- P.49 A General Signal-level Simulator for Aperture Synthesis Radiometers
LiangbingChen, QingxiaLi, FeiHu, ZubiaoXiong, WeiNi, JianDong, FangminHe, RongJin, YaotingZhu(**China Mainland**)
- P.50 The Requirement of Range Sidelobe for Dual-frequency Precipitation Radar on FengYun-3 Precipitation Measurement Satellite
HonggangYin, XiaolongDong(**China Mainland**)
- P.51 Predesign of the Wind Field Measuring Radar for FengYun-3E Meteorological Satellite
HonggangYin, XiaolongDong(**China Mainland**)
- P.52 Bistatic Synthetic Aperture Radar Imagery Simulation of Sea surface
Yan-WeiZhao, MinZhang, HuiChen, PingZhou(**China Mainland**)
Microwave and Millimeter Wave Systems
- P.53 A 20 W W-Band Pulse Solid-State Transmitter Using Injection-Locked Compact Cascaded Power Combining Networks
yongliu, xiaohongtang, zhoucao(**China Mainland**)
- P.54 A Compact LTCC Transmit Receive Module at Ku-band
JianhuaJi(**China Mainland**)
- P.55 Effects of Shorting pin on the Substrate Integrated Cylindrical Cavity
xiu-zhenluan(**China Mainland**)
- P.56 A LTCC Band Pass Filter Based on Half-Mode SICC Structure
JianGu, YongFan, DakuiWu(**China Mainland**)
Communication Systems
- P.57 Joint Blind Equalization and Detection of QAM and PAM transmissions
WeiRao(**China Mainland**)
- P.58 An Optimised of High-Efficiency Vehicular Loop Antenna for NVIS Applications
TianWei(**China Mainland**)
- P.59 Multi-mode/Multi-band Receiver for Onboard Ultra Broadband Communication System
yanweiWang, jianyiZhou, taoJin, WeiHong(**China Mainland**)
- P.60 BER Analysis of OFDM with Improved ICI Self-Cancellation Scheme
FarzanaPrianka, MohammadMatin, Abu ZafarMohammadSaleh, MOHD ALAUDDINMOHD ALI(**Bangladesh**)
- P.61 An algorithm for Jamming Recognition Based on Inspecting Spectrum of Satellite Communication
haowu, YongChen, TaoLiang, shengHangZhao(**China Mainland**)
- P.62 An Iterative MLD Scheme for MIMO-STBC System with Directional Interference
JieWang, XiaoxuChen, TaoLiu, YuehuanGong(**China Mainland**)
- P.63 Design and performance analysis of frequency hopping sequences with given minimum gap
Huaqingzhang(**China Mainland**)
- P.64 Method of Empirical Mode Decompositions in Radio Frequency Fingerprint
xujinyong, ZHAOHangsheng, LiangTao(**China Mainland**)
Submillimeter Wave Techniques
- P.65 Optimization and Design of a Suspended 215-235-GHz Subharmonically Pumped Mixer for Space-borne Radiometers
BoZhang, YongFan, XiaofanYang, FuqunZhong, ZheChen, XianqiLin, MinghuaZhao(**China Mainland**)
- P.66 Quasi-Optical Duplexer in 220GHz
JiechenChen, XuettianWang, YinqiaoLi(**China Mainland**)

2010-05-11 AM
Room 1

ORAL Session: D1 (10 presentations)

Passive Devices and Circuits

Session Chair: Kama Huang, Yong Zhang

- 8:20 - 8:40 Design of Dual-Band Substrate Integrated Waveguide Filter Using Frequency Transformation Method
JIACHEN, BianWU, Li-weiJIANG, Chang-HongLiang(**China Mainland**)
- 8:40 - 9:00 A Novel 4:1 Unequal Dual-Frequency Wilkinson Power divider
linachen, huanhuanxie, yongchangjiao, fushunzhang(**China Mainland**)
- 9:00 - 9:20 Research on the Distributed Circuit Parameters of the Chamfered Bent Microstrip Line
huizhang, zengruili, junhongwang(**China Mainland**)
- 9:20 - 9:40 Dual-Mode Filter with Asymmetric Response Using Square Loop Resonator DGS
BianWU, XinLAI, JiaCHEN, Xue-FengLI, Chang-HongLiang(**China Mainland**)
- 9:40 - 10:00 A Novel Approach to the Design of In-Phase/Out-of-Phase Dual-Band Power Divider
ZheLin, Qing-XinChu(**China Mainland**)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 Compact Dual-Band Bandpass Filter With Controllable Bandwidths
Xiao-HuWu, Qing-XinChu, LiFan(**China Mainland**)
- 10:40 - 11:00 Novel Equal and Unequal Power Divider Using Offset Parallel-Strip Lines
Jian-XinChen, Zhi-HuaBao, Li-HengZhou, HuiTang(**China Mainland**)
- 11:00 - 11:20 Modified CMOS Monolithic Stacked Coupled Stripline Balun for Millimeter-wave Applications
JunXia, ZhigongWang, YanjinLi, HuaxiangLu(**China Mainland**)
- 11:20 - 11:40 Design of Integrated Antenna-Coupled Detector for MMW and Sub-MMW Imaging
YongYuan, Jin-ChaoMou, DaboLi, XinLv(**China Mainland**)
- 11:40 - 12:00 Miniaturized Hybrid Ring Coupler Using Fan-Shaped Apertures On The Ground Plane
PengChen, Zhong-yunLi(**China Mainland**)

2010-05-11 AM
Room 2

ORAL Session: D2 (10 presentations)

Computational Electromagnetics

Session Chair: Lixin Guo, Pengfei Mu

- 8:20 - 8:40 LOD-FDTD Method for Physical Simulation of Semiconductor Devices
RashidMirzavand, AbdolaliAbdipour, WilSchilders, GholamrezaMoradi, MasoudMovahhedi
(Iran)
- 8:40 - 9:00 A Spectral Multiresolution Preconditioner Combined with Sparse-Matrix/Canonical Grid
Method for Analysis of Microstrip Circuits
DazhiDing, JianjunDing, RushanChen, MengmengLi(China Mainland)
- 9:00 - 9:20 PMCHW-AMCBFM for analysis of Electromagnetic scattering by 3-D homogenous dielectric
objects
GuodongHan(China Mainland)
- 9:20 - 9:40 Calculation of the thin line electromagnetic effects in a cavity
Jin-shiXiao, Wen-huaLiu, Shi-yingZhang(China Mainland)
- 9:40 - 10:00 Parallel Computation of Electromagnetic Scattering
xiaofeixu, xiangyucao, xuyao, qunyang(China Mainland)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 Parallel MoM on PC Clusters for Analyzing Radiation Characteristics of Vehicular multiple
Antennas
xiaofeixu, xiangyucao, qunyang, panpanwang(China Mainland)
- 10:40 - 11:00 An MoM/FDTD Hybrid Technique for Modeling HF Antennas Located on Ground
BoZhou(China Mainland)
- 11:00 - 11:20 Numerical Research of Bowtie Sierpinski Fractal Patch Antenna in RFID
QinWang, JinquanHuang(China Mainland)
- 11:20 - 11:40 Adaptive Focusing Techniques By Time Reversal Using a Single Antenna
zhongxuanming(China Mainland)
- 11:40 - 12:00 A Parallel Multilevel Fast Multipole Algorithm Based On OpenMP
Wei-ChaoPi, Xiao-Minpan, Xin-Qingsheng(China Mainland)

2010-05-11 AM
Room 3

ORAL Session: D3 (10 presentations)

Smart Antennas, Phased and Active, High Speed Digital Circuits and SI

Session Chair: Weixing Sheng, Wael Abd Ellatif Ali

- 8:20 - 8:40 Space Time Adaptive Processing (STAP) using Uniformly Spaced Real Elements Based on Direct Data Domain Least Squares (D3LS) Approach.
HassanELkamchouchi, DarwishMohamed, WaelAbd EllatifAli, MohammadOmar(**Egypt**)
- 8:40 - 9:00 Direct Data Domain Least Squares (D3LS) STAP Approach on Signals from Nonuniformly, Semicircular and Sinusoidal Spaced Arrays of Real Elements
HassanELkamchouchi, DarwishMohamed, WaelAbd EllatifAli(**Egypt**)
- 9:00 - 9:20 A Method of Over Cossec Square-beam Shaping with Sharp Cut off
YAOXu, CAOxiangyu, XUXiaofei, YANGQun(**China Mainland**)
- 9:20 - 9:40 Performance of LMS Algorithm in Smart Antenna
qunyang, yuxiangcao, XuYAO, feixiaoXu(**China Mainland**)
- 9:40 - 10:00 Pattern Synthesis for Adaptive Antenna Array with Compensation of Effects on Mutual Coupling
XuYAO, yuxiangcao, qunyang, panpanWang(**China Mainland**)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 Design of a Ka-band Active Phase Array Antenna
YunSun(**China Mainland**)
- 10:40 - 11:00 Performance Analysis for Angle Measurement of Monopulse Radar with Non-consistent Amplitude-Phase Features
LiangChen, WeixingSheng(**China Mainland**)
- 11:00 - 11:20 Quantum Particle Swarm Optimization for Integer Programming of Phased Array Feeds
WeiShi, QuanshengZhang, HuiDu(**China Mainland**)
- 11:20 - 11:40 The Non-Circular MUSIC Method for Uniform Rectangular Arrays
RuiLi, xiaoweiShi, leichen, PingLi, lexu(**China Mainland**)
- 11:40 - 12:00 Modeling of power-plane segmentation with cavity and planar-lumped models
GangChen, MinTang, JunfaMao(**China Mainland**)

2010-05-11 AM
Room 4

ORAL Session: D4 (10 presentations)
Scattering and Propagation, Wide Band Gap Semiconductor Devices
Session Chair: Qunsheng Cao, Runxi Zhang

- 8:20 - 8:40 Anisotropic Scattering for A Magnetized Cold Plasma Sphere
LiYingle(**China Mainland**)
- 8:40 - 9:00 Scattering of Hermite-Gaussian Beam by Plasma Sphere
HaiyingLi, ZhensenWu, ShichunMao, LuBai, ChaojunHuang(**China Mainland**)
- 9:00 - 9:20 The Impact of Antenna Arrays on the Indoor Radio Estimation Using the SAGE Algorithm
PengWang, JianfengZheng, YufeiShen, WenhuaChen, ZhengheFeng(**China Mainland**)
- 9:20 - 9:40 Analysis of ELF attenuation rate using the geodesic FDTD algorithm
Wangyi, XiaHangang, CaoQunsheng(**China Mainland**)
- 9:40 - 10:00 Predicting Environmental Effect on Approach Landing Systems Using Hybrid Model
HuaxinWu, XiubinZhao, ChuanjinDai(**China Mainland**)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 An approach research to segmentation of the SAR image based on the Markov Random field
LINGWANG, GuiZhenLu(**China Mainland**)
- 10:40 - 11:00 Performance Analysis of Time-Reversed Ultra-wideband Indoor Channel by Simulation
DouJun-hua, YangXue-song, ChenJian, WangBing-zhong(**China Mainland**)
- 11:00 - 11:20 A Novel Channel Model for Relay MIMO Cooperative Communication Based on the Geometrical two-ring
JieChen, DongyaShen, YanniCui, MeiZhang, XiupuZhang, KeWu(**China Mainland**)
- 11:20 - 11:40 A Channel Model of Wideband MIMO Mobile-to-Mobile Systems
DongyaShen, JieChen, MeiZhang, YanniCui, KeWu(**China Mainland**)
- 11:40 - 12:00 Simulation of Polarization Pinning Effect in PZT/AlGaIn/GaN MFS Heterostructure
YuechanKong(**China Mainland**)

2010-05-11 AM
Room 5

ORAL Session: D5 (10 presentations)

Wireless RF Components and Systems, Microwave and Millimeter Wave Systems

Session Chair: Zhenhai Shao, Jia-Lin Li

- 8:20 - 8:40 PSO-based Output Matching Network for Concurrent Dual-Band LNA
KunalDatta, RohitDatta, AshudebDutta, TarunKantiBhattacharyya(**India**)
- 8:40 - 9:00 Research of LTCC Millimeter-wave T/R Module
KeweiQian(**China Mainland**)
- 9:00 - 9:20 Wiener-Saleh Modeling of Nonlinear RF Power Amplifiers Considering Memory Effects
Ping-huiLi, PengWang(**China Mainland**)
- 9:20 - 9:40 An Improved RF Front-end of UHF RFID
LeiLiu, BinYou, XuanWen(**China Mainland**)
- 9:40 - 10:00 Several Key Issues in Single-Chip UHF RFID Reader Design
RunxiZhang, ChunqiShi, YihaoChen, WeiHe, PingXu, ShuaiXu, ZongshenLai(**China Mainland**)
- 10:00 - 10:20 (Tea Break)
- 10:20 - 10:40 An Antenna Switch Module for GSM Application Using LTCC Technology
XiaochuanHong, Hong- LiPeng, Jun- FaMao(**China Mainland**)
- 10:40 - 11:00 Analysis and Suppression for Radiated EMI Noises Generated by Radio Frequency Identification (RFID) Based-systems
YangZhao, WeiYan, Yong-chaoLuo, RongRong, FengWen(**China Mainland**)
- 11:00 - 11:20 Study and Simulation of RF Power Amplifier Behavioral Model Based on RBF Neural Network
JiuchaoLi, JingchangNan, JingmeiZhao(**China Mainland**)
- 11:20 - 11:40 An Optimized $\Delta\Sigma$ Modulator in Fractional-N Frequency Synthesizer for UHF RFID Reader
ChunqiShi, RunxiZhang, LeiChen, ZongshengLai(**China Mainland**)
- 11:40 - 12:00 A UWB Downconvert Circuit and Measurement
bohan, mengmengliu, ningge(**China Mainland**)

Solid State Device and Circuits

- P.1 InGaP/GaAs/InGaAs Doped-Channel Field-Effect Transistor Using Camel-Like Gate Structure
Jung-HuiTsai, Der-FengGuo, Yuan-HongLee, Ying-FengDai, Wen-ShiungLour(**Taiwan**)
- P.2 InGaP/GaAs Superlattice-Emitter Bipolar Transistor with InGaAs/GaAs Superlattice-Base Structure
Jung-HuiTsai, Der-FengGuo, Yuan-HongLee, Ning-FengDale, Wen-ShiungLour(**Taiwan**)

Passive Devices and Circuits

- P.3 Design of Dual-Mode Folded Substrate Integrated Waveguide (FSIW) Filters with LTCC Technology
RunqiZhang, ZhigangWang, BoYan(**China Mainland**)
- P.4 A waveguide-to-microstrip transition at W-band
WangZ.X., SuP.G., ShangL.(**China Mainland**)
- P.5 Dual-band Stepped-Impedance Resonant Filter with Dual-band Admittance Inverter
wei-pingLiu, yu-weiTung(**Taiwan**)
- P.6 The Influence of Film Uniformity on the Performance of Coaxial Airline
NingYueMin, JiangWanshun, DengJianqin(**China Mainland**)
- P.7 Notched band UWB filter with enhanced lower out-band characteristic
WeiyuZong, XiaoweiZhu, ChangjiangYou, JingqiWang(**China Mainland**)

Microwave-Optical Design

- P.8 Thermal Circuit Model of MQW VCSEL Laser
ChangQI(**China Mainland**)
- P.9 Design and analysis of double negative binary diffractive lens
WangZ.X., YouL.Z.(**China Mainland**)
- P.10 Bessel-Gauss Resonator
yanzhongyu, WenbinDou(**China Mainland**)
- P.11 A Novel High-gain Wideband Patch Antenna Fed by Twin-L-probe
LiangZhu, YongCheng(**China Mainland**)
- P.12 A Design of Stripline-Coaxial Transition Vertically With Ultra-Broadband
RongShen, DewuKong, DanSun(**China Mainland**)

Instrumentation and Measurement Techniques

- P.13 Solution of Measuring the Impedance of Encapsulated RFID Chip
YangZheng, XiupingLi(**China Mainland**)
- P.14 Research on Antenna Phase Center Anechoic Chamber Calibration Method
Yong HuZhang, LiZhou(**China Mainland**)
- P.15 Design of a Microwave Cavity for Compact Hydrogen Maser
nuanrangwang, tiezhongzhou, lianshangao, kemingfeng(**China Mainland**)

Electromagnetic Field Theory

- P.16 High Frequency Electromagnetic Ray Transmission Based on Variational Representation
KBTan(**China Mainland**)

Computational Electromagnetics

- P.17 Full Wave Analysis of Arbitrary Shape CCMA Fed by Microstripline
MengzhongHu, ChengyouYin, ZhengSong, ShaoboZhou(**China Mainland**)
- P.18 Overcoming the GPU Memory Limitation on FDTD Through the Use of Overlapping Subgrids
leonardomattes, SergioKofuji(**Brazil**)

Microwave Antennas

- P.19 Implementation and Investigation of Monopole Antenna with Dual Plate-Loads
TaoHong, ShunxiGong, YingLiu, WenJiang(**China Mainland**)
- P.20 Circular Array of Microstrip Circular Patches Printed on LiTiMg Ferrite Substrate
NaveenKr.Saxena(**India**)

- P.21 Inductively Coupled RFID Tag Antenna Design and Measurement
YangZheng, XiupingLi(**China Mainland**)
Smart Antennas, Phased and Active
- P.22 Implementation and investigation of a dual-frequency antenna
WenJiang, ShuxiGong, QiGong, TaoHong(**China Mainland**)
Microwave Remote Sensing and Sensors
- P.23 Prelaunch Calibration of Chang'E-2 Lunar Microwave Radiometer
ZhenzhanWang, YunLi, DehaiZhang, JingshanJiang(**China Mainland**)
High Speed Digital Circuits and SI
- P.24 A Compact Passive Model of Transmission Lines with Frequency-Dependent Parameters
MinTang, JunfaMao(**China Mainland**)
Submillimeter Wave Techniques
- P.25 Efficient THz generation via Stimulated Raman adiabatic passage
HuafengShi, LeiJin, YuanfuLu, XiaojingGong, YandongZhang, HanCui(**China Mainland**)
EMI and EMC
- P.26 Study on Measurement Model for Radar Electromagnetic compatibility Analysis
LiGui-yuan, ZhangHou, YinXiong, TianHailin(**China Mainland**)
- P.27 Research on the Directivity Test of RFID Tag in GTEM Cell
JiLI, Shu-fangLI, Zhong-liangZUO, Jian-xiongLI(**China Mainland**)
Photonics and Optics
- P.28 Hybrid Particle Swarm Algorithm in the Application of Optical Fiber Sensor with ZnO Coating
lizhou, qiliu(**China Mainland**)
- P.29 Numerical Simulation of Band-Gap-Overlap Separation and Residual-Side-Lobe Elimination in a Coaxial Bragg Structure Operating at 100 GHz
YuZhang, Shi-ChangZhang(**China Mainland**)
- P.30 Influence of Air-hole Rings on Dispersion of Microstructured Fibers
Yanjunliu, shanglinhou, jiaweihan, chunlianhu, suopingli, jingliLei, zhongyiwang(**China Mainland**)
- P.31 Analog Performance of an All-optical Frequency Upconverter utilizing an Electro-absorption Modulator for Radio-over-Fiber applications
Hyoung-JunKim, Jong-InSong(**South Korea**)
Wireless RF Components and Systems
- P.32 A Miniaturized LTCC Low-pass Filter Based on the Lumped Circuit Model
YongShengDai, WenKanZhou(**China Mainland**)
- P.33 A Series-parallel Microstrip Array Antenna
XiaoliZhao(**China Mainland**)
- P.34 Design and Implementation of an Miniaturized LTCC Filter with High Stopband Rejection
YongShengDai, WenKanZhou(**China Mainland**)
- P.35 A Miniaturized Dual-Frequency Wilkinson Power Divider Using Planar Artificial Transmission Lines
fangshangbin, guohuiping, liuxueguan, maolingfeng(**China Mainland**)
- P.36 The Portable Wireless Aerial Image Transmission System Based on DSP
lizhang, ChengxiangLiu, GongbinQian(**China Mainland**)
- P.37 A Compact Dual-mode BPF Base on Interdigital Structure
FengliuXu, XueguanLiu, HuipingGuo, YingWang(**China Mainland**)
- P.38 Fully Integrated CMOS UWB Transmitter for Application in China
FeihuaChen, shuiyanglin, LingyunLi, XinzhongDuo, XiaoweiSun(**China Mainland**)
Wide Band Gap Semiconductor Devices
- P.39 Improved SiC MESFET Small-signal Equivalent Circuit and Optimizing Method
YingLiu, YongboChen, YunchuanGuo, RuiminXu(**China Mainland**)
- P.40 Characterization of High-frequency Noise Performance of GaN Double Heterojunction HEMT
YuehangXu(**China Mainland**)
Radar & Broadband Communication Systems
- P.41 FM Interference Suppression for PRC-CW Radar based on STFT and Median Filtering
ZhengyuCai, WenwuChen, RushanChen(**China Mainland**)
- P.42 Optimizing Polyphase Signals for Orthogonal Netted Radar
WenwuChen, ZhengyuCai, RushanChen, ZhaoZhao(**China Mainland**)
- P.43 Oblique Projection Polarization Filtering and Its Performance in High Frequency Surface Wave Radar
LiuAijun, MaoXingpeng, DengWeibo(**China Mainland**)

- P.44 Angle Estimation for Two Unresolved Swerling I Targets in Monopulse Radar
ZhouLanFeng, ZhangMin, ZhaoYiNan(**China Mainland**)
- P.45 Self-adaptive Frequency Estimation Algorithm of Improving Liquid Level Measurement Precision of LFMCW Radar
Leizhu, liangdong, shu-dongliu, dao-lisun(**China Mainland**)
- P.46 Radar Anti-Jamming Application of Solid-State Noise Source
ruihailiang, yongyang, xiaofazhang, naichangyuan(**China Mainland**)
- P.47 Time Reversal Based Channel Self-Adaptive OFDM in Complex Environment
XiaofeiLiu, BingzhongWang, GangZheng, Guang-DingGe, ShuaiDing(**China Mainland**)
- P.48 Design of Velocity Radar for Railway
BoLv(**China Mainland**)
- P.49 Optimum Design of Jamming Reconnaissance Receiver
ruihailiang, YuanTan, xiaofazhang, naichangyuan(**China Mainland**)
- P.50 A Target Polarization Recognition Method for Radar Echoes
XiLi, LianshanLin, XianheShao(**China Mainland**)
- P.51 A Novel Analytical Method and Error Criterion of the Synthetic Range Profile
WeiPeng, XuegangWang, BinTang, HongangWu(**China Mainland**)
MEMS
- P.52 Design and Fabrication of 2-bit Loaded-line MEMS Phase Shifter
JianzhongLou(**China Mainland**)
PBG and Metamaterials
- P.53 Ultra-wide Stopband Low-pass Filter with Bowtie Defected Ground Structure
Huan-HuanXie, Yong-ChangJiao, Jing-XiuHuang, LiZhang(**China Mainland**)
- P.54 Compact Design of Branch-line Coupler Based on CRLH TL Combined With Fractal Shaped Geometry
He-xiuXU(**China Mainland**)
- P.55 Narrow pass-band and narrow transmission-angle filter by photonic heterostructures containing negative-index materials
MiLin, JunXu(**China Mainland**)
- P.56 Ellipsoidal cloak for inhomogeneous medium
TianchengHan, XiaohongTang, FeiXiao(**China Mainland**)
- P.57 Surface modes of the sandwich structure containing indefinite metamaterials
LiweiZhang(**China Mainland**)
- P.58 Experimental verification of negative refractive index materials using yttrium iron garnet
Tian-QianLi(**China Mainland**)
- P.59 Effects of EBG Reflection Phase Profiles on the Driving-point Impedance of Dipole Antennas
TaoLiu, XiangyuCao(**China Mainland**)
- P.60 Analysis on the Characteristics of Electric Resonant Structure and Its Application in Frequency Selective Surface Design
Xian QiLin, XingLiu, PengSu, BoZhang, YongFan(**China Mainland**)
- P.61 New Two-Dimensional PBG Structures for THz Transmission Line and Antenna Integrated Design Based on MEMS Technology
YongLiu(**China Mainland**)
- P.62 Simulations for the Advanced Photonic Band Gap Accelerating Structure
FanHao, WuCong-Feng, LiuGuangchao(**China Mainland**)
- P.63 A Novel Substrate Integrated Waveguide Circular Cavity BandPass Filter Loaded with Complementary Split Ring Resonator
XiaoYanZhang(**China Mainland**)
Other relevant topics
- P.64 A Novel Bandpass Filter Based on Comb Microstrip Structure
yunhonghe(**China Mainland**)
- P.65 Analysis on the Refraction Stealth Characteristic of Cylinder Plasma Envelopes
LaixuanMa, HouZhang, LiZhu, Xiang-junGao(**China Mainland**)
- P.66 Study the Dielectric and Optic Properties of Ti_2XC ($X=In, Sn, Al, Cd$ and Pb) by Density Function Theory
LiJunYang(**China Mainland**)
- P.67 A calibration algorithm of millimeter-wave sparse array based on simulated annealing
YongYang, YuanTan, ruihailiang, QuanWang, naichangyuan(**China Mainland**)

2010-05-11 PM
Room 1

ORAL Session: E1 (11 presentations)

Microwave Remote Sensing and Sensors, Microwave and Millimeter Wave Systems, Submillimeter Wave Techniques, Low-Noise Devices and Techniques

Session Chair: Falin Liu, Xi-Yu Xu

- 13:30 - 13:50 Design and Analysis of Injection-locked Frequency Divider by Order 3
HoseinZargar, MahmoodKamarei(**Iran**)
- 13:50 - 14:10 The Microwave Noise Characteristics of InAlN/GaN HEMTs
ChenYongbo, GuoYunchuan, HuangWen, XuRuimin(**China Mainland**)
- 14:10 - 14:30 Analysis of Two-dimensional Circle-Array Synthetic Aperture Microwave Radiometer Channel Errors
houcaichen, KunChao, ZhenweiZhao, RuiLang, yanbojin(**China Mainland**)
- 14:30 - 14:50 Engineering Design of the Rain Mode on an Ocean-dedicating Radar Altimeter
Xi-YuXu, He-GuangLiu, PengLiu(**China Mainland**)
- 14:50 - 15:10 A Solar Calibration Method for Microwave Aperture Synthesis Radiometers
RongJin, QingxiaLi, JianDong, LiangBingChen, LinFengHe, KeChen(**China Mainland**)
- 15:10 - 15:30 Two-dimensional Imaging of Three-dimensional Scatterer by Using Linear Sampling Method
GuanghuaLi, XiangZhao, KamaHuang(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 A New Hybrid-frequency Radar System Based on Compressed Sensing Theory
ZhipingYin, HaoXu, WeidongChen(**China Mainland**)
- 16:10 - 16:30 Brightness Temperature of the Global Moon: Comparison between Simulation and Theoretical Observation by Chang'E-1 Lunar Orbiter
Guo-pingHu, Qing-XiaLi, Yong-ChunZheng, Xiong-YaoLi, LiangLang, Guang-YaoShen, YiLiao, Quan-LiangHuang, PingChen, Liang-QiGui(**China Mainland**)
- 16:30 - 16:50 Equivalent Optical Design of The Bifocal Lens Antenna in Passive Millimeter Imaging System
zhewang, JianhuaDeng, BingZhongWang(**China Mainland**)
- 16:50 - 17:10 A Ka-Band Direct Frequency Source
XinHu, MengxiaYu(**China Mainland**)
- 17:10 - 17:30 Design and Fabrication of Planar GaAs Schottky Barrier Diodes for Submillimeter-wave Applications
JinchaoMou, YongYuan, XinLv, WeihuaYu, DaweiHe, JinghuiWang, GuohuaXiao(**China Mainland**)

2010-05-11 PM
Room 2

ORAL Session: E2 (11 presentations)

**Radar & Broadband Communication Systems, MEMS, PBG and
Metamaterials**

Session Chair: Chinchun Meng, Jingfu Bao

- 13:30 - 13:50 Detection of Human Targets using Ultra-wide Band Through-the-wall Radar
FengHe, GuofuZhu, XiaotaoHuang, ZhiminZhou(**China Mainland**)
- 13:50 - 14:10 Variable Structure Multiple Model Particle Filter for Maneuvering Radar Target Tracking
minzhang, WeidongChen(**China Mainland**)
- 14:10 - 14:30 The design of cancellation unit against radiofrequency interference in life-detection Radar
ChongyuWei, ChenLiu(**China Mainland**)
- 14:30 - 14:50 Azimuth Variant Bistatic SAR Imaging Algorithm Based on Physical Optics Method
Z. W.Yang, S.Shang, J. Q.Chen, Z. W.Liu, RushanChen(**China Mainland**)
- 14:50 - 15:10 An Improved Design Method for Asymmetric RF MEMS Tunable Filter Utilizing Admittance
Matrix
ChengTu, JingfuBao, YijiaDu, WenchangWu(**China Mainland**)
- 15:10 - 15:30 Modeling and Design of 5-bit X-band RF MEMS Distributed Phase Shifter
YijiaDU, JingfuBao, WenchangWu, ChengTu, pengfeiMu(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Preparation of VO₂ microbolometer for CO₂ gas detection
LixiaWang, Xing-AoLi(**China Mainland**)
- 16:10 - 16:30 Study and Design of Dual-band Quarter-wave Open-circuit Stub Based on Koch-fractal-shaped
Geometry of CSRRs
He-xiuXU(**China Mainland**)
- 16:30 - 16:50 A Multi-band THz Regime Metamaterial Design Using a Paired Metallic Circular-strip
Structure
xudongcui, HonggangLiu, WeidongWu, YongjianTang(**China Mainland**)
- 16:50 - 17:10 New types of left-handed materials based on the Z-shaped metal structure
HaiXiaWang(**China Mainland**)
- 17:10 - 17:30 An Improved Method to Retrieve the Effective Parameters of Metamaterials
ZhenyanHu, LezhuZhou(**China Mainland**)

ORAL Session: E3 (11 presentations)

Communication Systems, EMI and EMC

Session Chair: Xueguan Liu, Yunxin (Jeff) Li

- 13:30 - 13:50 Blind SNR estimation of OFDM signals
Yunxin (Jeff)Li(**Australia**)
- 13:50 - 14:10 Multi-Gbps Wireless Link by UWB:Chipset in CMOS from 6 GHz to 60 GHz
FujiangLin, LuHuang, WeidongWang(**Singapore**)
- 14:10 - 14:30 A Variable Step Size Blind Equalization Algorithm for QAM Signals
weixue, xiaoniuyang, zhaoyangzhang(**China Mainland**)
- 14:30 - 14:50 Measurement on 2.3GHz Wideband Indoor MIMO Channel Based on Dual Polarization Antennas
XiaoyuWang, YangGuo, XinWang, JiawenSun, WenhuaChen, YufeiShen, ZhengheFeng (**China Mainland**)
- 14:50 - 15:10 Array Mutual Coupling Effect on the Adaptive Space-Time Transmit Schemes
MinLin, Wei-ZhongLi, JunYang(**China Mainland**)
- 15:10 - 15:30 A transmit power allocation of MIMO system in coal mine tunnels
Shan-huaYAO, Zong-jiuZHU(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Computation of Shielding Effectiveness of a Rectangular Case with MLFMM between 0-5GHz
ChongHuaFang, QiZhang, HuiTan, DingEWen(**China Mainland**)
- 16:10 - 16:30 Analysis of Airborne Antennas Isolation Based on Accurate Modeling in AIE
LiuYang, DonglinSu, KeLiu, XiaojieChen, YanjunZhang(**China Mainland**)
- 16:30 - 16:50 Spark Discharge and Simulation of Its Electromagnetic Radiation
WenleiSun, XinmingQian, PingHuang(**China Mainland**)
- 16:50 - 17:10 Development of Low Cost Radiated Emission Measurement System
ZIHONGHUANG, WenhuaChen, ZhengheFeng, KOJITOYAMA, KAZUNORITESHIMA (**China Mainland**)
- 17:10 - 17:30 Interaction between Differential lines and Power/Ground Plane
BoLiu, Xin-HuaiWang, Xiao-weiShi, XinLi, Chang-JiaGao(**China Mainland**)

2010-05-11 PM
Room 4

ORAL Session: E4 (11 presentations)

**EMI and EMC, Biological Effects and Medical applications, Passive
Devices and Circuits, Solid State Device and Circuits**

Session Chair: Chunlan Lu, Wenquan Che

- 13:30 - 13:50 Analysis on the Shielding Effect by Metallic Pipe Line against Electromagnetic Induced Voltage
SangmuLee, ChangsooEun, Pyung-DongCho(**South Korea**)
- 13:50 - 14:10 A Ku-Band Eight-Way Solid-State Spatial Power-Combining Amplifier
JiandongLang, YongFan(**China Mainland**)
- 14:10 - 14:30 The Miniaturization of Rectangular Waveguide
ZhiyuanYu(**China Mainland**)
- 14:30 - 14:50 A Dual-Band Bandpass Filter Using Parallel Doubly Coupled Structure with Loading Capacitance
NaHan, Yu-LiangDong, Mao-YanWang(**China Mainland**)
- 14:50 - 15:10 Investigations on Three Theoretical Models of Permittivity Measurement for Biological Tissues
LixueZhou, YumeiChang, WenquanChe, K. F.Man(**China Mainland**)
- 15:10 - 15:30 The Impact of Pulse Duration on Cell Membranes and Equivalent Circuit
tanyafang, wuminghe, yanghongchun, xujun(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 Influence of Source Offset on Breast Tumor Hyperthermia with π -Shaped LHM Lens Applicator
YonghuiTao, GangWang(**China Mainland**)
- 16:10 - 16:30 Study on Relationship between Cavity Electromagnetic Effect and Dimensions of Cavity
QiZhang, Ding-eWEN, Dong-yunHOU, Chong-huaFANG(**China Mainland**)
- 16:30 - 16:50 Simulation of high power EMP effects on a cylinder object with openings using FDTD method
Jin-shiXiao, Wen-huaLiu, Shi-yingZhang, Jin-huaZhang(**China Mainland**)
- 16:50 - 17:10 Near-Field Corrections to Antenna Factor of Dipole Antennas calibrated in very narrow OATS
DonglinMeng, XiaoLi, XiaoxunGao(**China Mainland**)
- 17:10 - 17:30 Reduction of Mutual Coupling between Closely-Packed Antenna Elements with Split Ring Resonator (SRR)
LihaoHuang(**China Mainland**)

ORAL Session: E5 (11 presentations)

Microwave Antennas

Session Chair: Wenbin Lin, Fei You

- 13:30 - 13:50 Theoretical Analysis of Microstrip Antennas Loaded with Small-Columned Loads
WenquanCao, BangningZhang, TongbinYu, AijunLiu, HongbinLi(**China Mainland**)
- 13:50 - 14:10 A Efficient Ring-focus Antenna for Forming an Elliptic Beam
ZhiyongLu(**China Mainland**)
- 14:10 - 14:30 Implementation of CPW-feed Patch/Slot Antennas for 60GHz System Applications
hengrongcui, TingZhang, YunSun, LingyunLi, RongQian, XiaoweiSun(**China Mainland**)
- 14:30 - 14:50 The Simulation of the Multi-band Triangle Fractal Nesting Printed Monopole Antenna
shulin, zhongdawu, wandongmao, chengliu, runnancai(**China Mainland**)
- 14:50 - 15:10 A Low-Profile Broadband RFID Tag Antenna for Metallic Objects
MingYinLai, RongLinLi(**China Mainland**)
- 15:10 - 15:30 Folded Arrowhead-shaped Wideband Patch Antenna
TianweiDeng, ShaoqiuXiao, MingchunTang, BingzhongWang(**China Mainland**)
- 15:30 - 15:50 (Tea Break)
- 15:50 - 16:10 A Broadband Antenna for Multi-Standard UHF RFID Tag Applications
Rui-HuaZeng, Qing-XinChu(**China Mainland**)
- 16:10 - 16:30 Planar Disc Super Wide Band Antennas with C-like Slots
Wen-JianLiu, Qing-XinChu(**China Mainland**)
- 16:30 - 16:50 Small ZOR Antenna with High Efficiency Based on Epsilon Negative Transmission Line
Jian-QuanHuang, Qing-XinChu(**China Mainland**)
- 16:50 - 17:10 A Low Loss Frequency Scanning Planar Array Using Hybrid Coupling
HaoWang, PingGe, DagangFang, XiaofengMa, WeixingSheng(**China Mainland**)
- 17:10 - 17:30 A Novel Wide Beam UWB Antenna Design for Through-the-Wall Radar
QinlongLu, LingyunZhou, ChaomanTan, GuanghuaLu(**China Mainland**)

Solid State Device and Circuits

- P.1 Design of an X-band High Power Solid State Power Amplifier Based on GaN HEMT
fengni, jianhongfang, haofeng, chaoyangwang, jianweiliu(**China Mainland**)
- P.2 The Analysis of Double Doping Polysilicon Gate Lightly-Doped-Drain (LDD) MOSFET
ZhengChangYong(**China Mainland**)
- P.3 Study of size effect on the conductivity of nano-silver colloids
WenZhao, LuhaiLi, LuobuDanzeng(**China Mainland**)

Low-Noise Devices and Techniques

- P.4 4.2-4.8 GHz CMOS Variable Gain LNA for Chinese UWB Application
FeihuaChen, shuiyanglin, LingyunLi, XiaoweiSun(**China Mainland**)

High-Power Devices and Techniques

- P.5 Design Variations of HVVFETTM Transistors for High-Efficiency Class-AB L-Band Power Amplifiers
WillZCai, DaveRice, BishnuPGogoi, PhuongLe, RobertDDavies, DaveLutz, marcusSucro
(**United States**)
- P.6 Designing Broadband Input Coupler and Output Window for a Ka-band Gyro-TWT
Chao-HaiDu(**China Mainland**)
- P.7 An analysis of self-heating and collector-current collapse on RF power transistor
PengfeiMu, JingfuBao(**China Mainland**)
- P.8 Focusing High-current sheet electron beam with elliptical solenoid
zhanliangwang(**China Mainland**)

Monolithic Integrated Circuits

- P.9 A 5.5-GHz Multi-Modulus Frequency Divider in 0.35 μ m SiGe BiCMOS Technology for Delta-Sigma Fractional-N Frequency Synthesizers
WenguanLi, HonglinChen, RuoheYao(**China Mainland**)
- P.10 Quadrature Regenerative Frequency Dividers Using HEMT Technology
Jen-YiSu, ChinchunMeng, Kuan-ChangTsong, Guo-WeiHuang(**Taiwan**)

Passive Devices and Circuits

- P.11 A Novel Millimeter-wave Wideband BPF Based On Three-line Stripline Structure with LTCC Technology
BotaoZhao, ZhigangWang, RuiminXu, BoYan, JunXie(**China Mainland**)
- P.12 Design of a Substrate Integrated Waveguide Bandpass Filter Using in Microwave Communication Systems
YingWang, QianLiu, WeiShiDong(**China Mainland**)
- P.13 A Method to Generate High-Frequency Magnetic Field for GMI Effects
JiacaiHong(**China Mainland**)
- P.14 Design of High Power Capacity Phase Shifter with Composite Right/Left-Handed Transmission Line
QiZhu, ChenGong, HaoXin(**China Mainland**)

Packaging, Interconnects, and MCMs

- P.15 Integrated Millimeter-wave Passive Devices Based on Silicon Substrate for SoP Application
HuajiangWang, LiangWu, JiajieTang, RongQian, yangHou, WeiWang, LingyunLi, XiaoweiSun, LeLuo(**China Mainland**)

Ferrite and SAW Components

- P.16 Minimized Ku Band Microstrip Circulator Design
KeyanTian, LizhiYou, HuaLiu(**China Mainland**)

Electromagnetic Field Theory

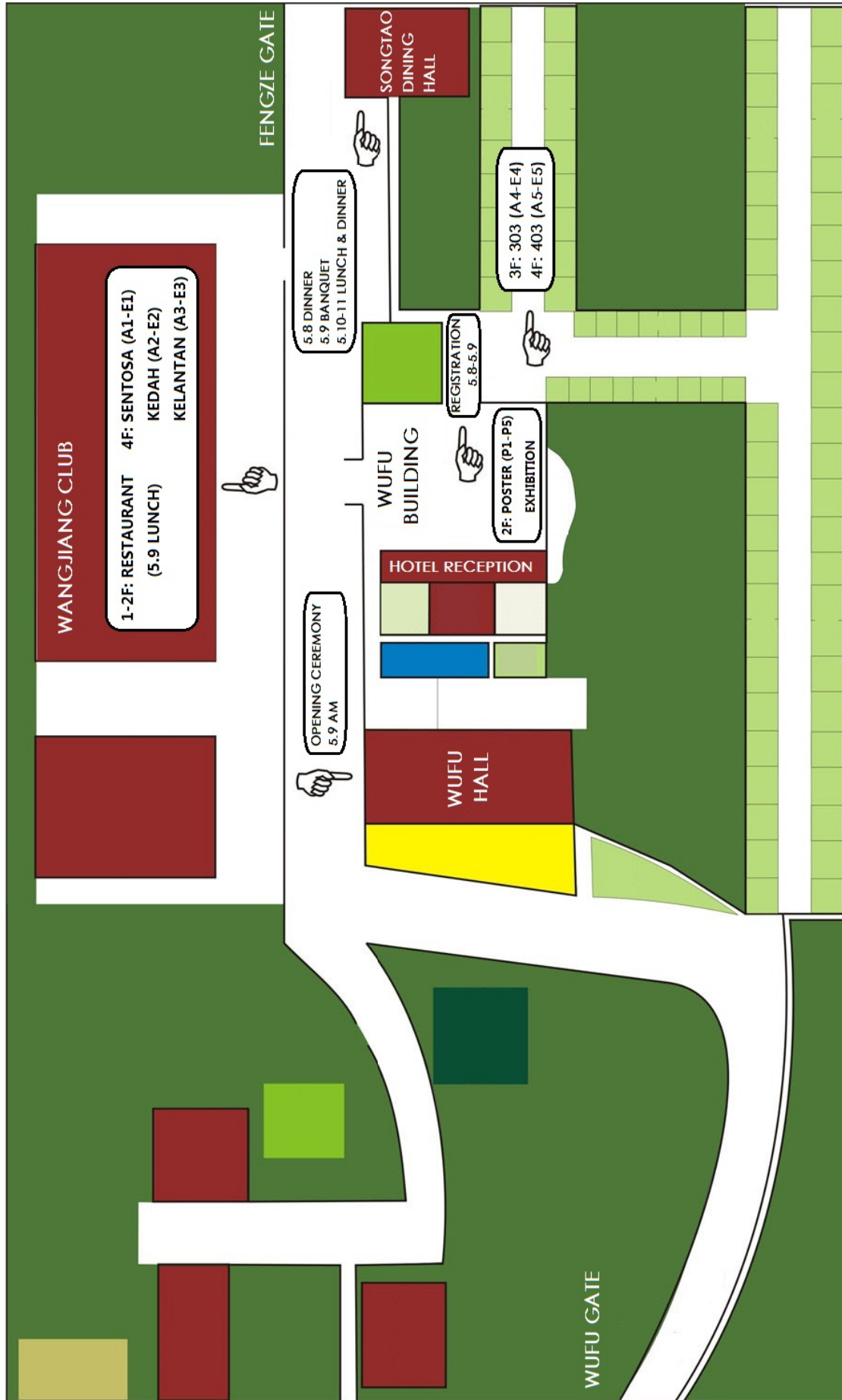
- P.17 Mode Matching Analysis of Metallic Plates in Radial Waveguide
xiangqiangLI, QingxiangLIU, JianqiongZHANG, LiuZHAO(**China Mainland**)

Computational Electromagnetics

- P.18 Tests of HFCS-I on Calculation of Attenuation Characteristics of High-Frequency Circuits
XiaoFangZhu, ZhongHaiYang, BinLi, JianQingLi, LiXu, TaoHuang, XiaoLinJin, QuanHu, YuLuHu, JunJianMa(**China Mainland**)
- P.19 Research of Different Hexagonal Microstrip Antennas Based on PMCHW Formulation
ShaoboZhou, ZhengSong, YuanboWang, MengzhongHu(**China Mainland**)
- P.20 Hybrid of Moment Method and Mode Matching Technique to Study Substrate Integrated Waveguide
RezaRezaiesarлак, EsfandiarMehrshahi, HamidrezaSadreazami(**Iran**)
- P.21 An Enhanced Interpolation Method for the Multilevel Fast Multipole Algorithm
Dao-PuXiang, Dong-MingZhou(**China Mainland**)
Microwave Antennas
- P.22 Compact Planar Antenna for UWB Applications
RezaulAzim, AhmedToahaMobashsher, MohammadTariqulIslam, NorbahiahMisran(**Malaysia**)
- P.23 A Novel Printed Slot Array Antenna with Omni-directional Pattern
XingChen, JunquanChen(**China Mainland**)
- P.24 A Novel Microstrip Patch Antenna with Spur-Line for Harmonic Suppression
HaiwenLiu, LiShen, ChuanyunWang, MinghuaGao, XuehuiGuan(**China Mainland**)
- P.25 A Band Notched Ultra-wideband Antenna Using Complementary Split Ring Resonator
BinggangXiao(**China Mainland**)
- P.26 Meander-line Antenna for RFID Tag
xiao zhenglai, yun liangliu(**China Mainland**)
- P.27 A Ka-Band Cavity-Backed Patch Antenna with Parasitic Strips Using LTCC Multilayer Technology
JinhongWang, WeiQuan, ZhigangWang, BoYan, RuiminXu(**China Mainland**)
Smart Antennas, Phased and Active
- P.28 A Study of ESPAR antenna
NoorsalizaAbdullah(**Malaysia**)
- P.29 Research on Phased Array Antenna Multi-step Mixed feed
huixu(**China Mainland**)
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- P.30 Scattering Characteristic of Soot Aggregation Particles Randomly distributed
Zheng-JunLi, Zhen-senWu, HuanLi, Qiong-KunYuan(**China Mainland**)
- P.31 Faraday Chiral Mediums Reflector for Polarization
QunWu, FanyiMeng, QunWu(**China Mainland**)
- P.32 Research on Scattering Effect of Sea Surface to HEMP
MingjuanCai(**China Mainland**)
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- P.33 A Ka-band High Sensibility Wideband Millimeter Wave receiver used for Imaging Application
fuhongguan(**China Mainland**)
Microwave and Millimeter Wave Systems
- P.34 A Review of Synthetic Aperture Radar Seeker
WeiguoWang, YinanZhao, FengcongLi(**China Mainland**)
- P.35 Substrate Integrated Waveguide Filters with Stopband Performance Improvement
EsfandiarMehrshahi, MehdiSalehi, RezaRezaiesarлак(**Iran**)
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- P.36 NLA-16QAM and NLA-16SQAM High-speed Modulation systems
ZhaoHui, Yanxiaofang(**China Mainland**)
EMI and EMC
- P.37 A Modified EMI Noise Source Impedance Modeling by Employing Two Resistances Calibration and Levenberg-Marquardt's Method
WeiYan, YangZhao, Xiao-quanLu, Ying-huaDong, FengWen(**China Mainland**)
- P.38 Compensation for Current Probe Measurement Applied in Conductive Electromagnetic Interference (EMI) Noise Soft Separation
Xiao-huiQiu, JuanDu, YangZhao, Xiao-quanLu, Ying-huaDong, WeiYan, FengWen(**China Mainland**)
- P.39 EMI Noise Diagnosis and Suppression for Single Chip Micryoco Based on Electronic System
YinghuaDong, YangZhao, XiaoquanLu, YongchaoLuo, WeiYan(**China Mainland**)
- P.40 Generating Field Strength Measurement Standard in GTEM Cell by Using Transfer Standard
DaboLi(**China Mainland**)
Photonics and Optics

- P.41 Application of AMC on Mini Ultra-near Radar Detecting System
yuantan, yongyang, ruihailiang, naichangyuan(**China Mainland**)
Wireless RF Components and Systems
- P.42 2.4GHz High Linearity Down-Conversion Mixer
WenyuanLI, JiChen, ZhigongWang(**China Mainland**)
- P.43 Design 2.4 GHz Wide Bandpass Filter Using the Closed Loop Ring Resonator with the Compound Stub
majidshakeri, majidbavafa(**Iran**)
- P.44 A Novel MIMO Receiver Using Antenna Selection and Time-Multiplexed Single RF Technique
MohammadLari, AbbasMohammadi, AliAbdipour(**Iran**)
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- P.45 4H-SiC Bipolar Junction Transistors for UHF and L-Band Long-Pulse Radar Applications
FengZhao, TangaliS.Sudarshan, TiefengShi(**United States**)
- P.46 InAlN-AlN-GaN HEMTs on Sapphire Substrate
HaiqiLiu, JianJunZhou, XunDong, TangShengChen, ChenChen(**China Mainland**)
Radar & Broadband Communication Systems
- P.47 A Design of Ku-Band Slow-Wave Bandpass Filter
jingjingSHI, MingshengCHEN, XianliangWU(**China Mainland**)
- P.48 CLASSIFICATION OF RADAR SIGNALS USING TIME-FREQUENCY TRANSFORMS AND FUZZY CLUSTERING
MingqiuRen, JinyanCai, YuanqingZhu(**China Mainland**)
- P.49 A Wideband Doppler Filter Bank Architecture for Synthetic Range Profile
WeiPeng, XuegangWang, HonggangWu, BinTang(**China Mainland**)
MEMS
- P.50 Analysis and implementation of MEMS coplanar waveguide on silicon substrate
guiwang, RushanChen, WanchunTang(**China Mainland**)
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- P.51 Metamaterial transmission lines based on split-ring resonators (SRRs) and complementary split-ring resonators (CSRRs)
zhangyanan, Denglingling(**China Mainland**)
- P.52 Study of Three-Dimensional Optical-Transformation Devices Based on Analytical Field-Transformation Theory
QiangCheng(**China Mainland**)
- P.53 Design of a Novel Artificial Magnetic Conductor Plane and Its Application for Low-Profile Dipole
Mingtangxie(**China Mainland**)
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- P.54 Power Window Effect in Microwave Heating
KamaHuang, YangYang(**China Mainland**)
- P.55 Etching process of a-C:H film with ECR plasma
chaoSUN, WolfgangJacob(**China Mainland**)

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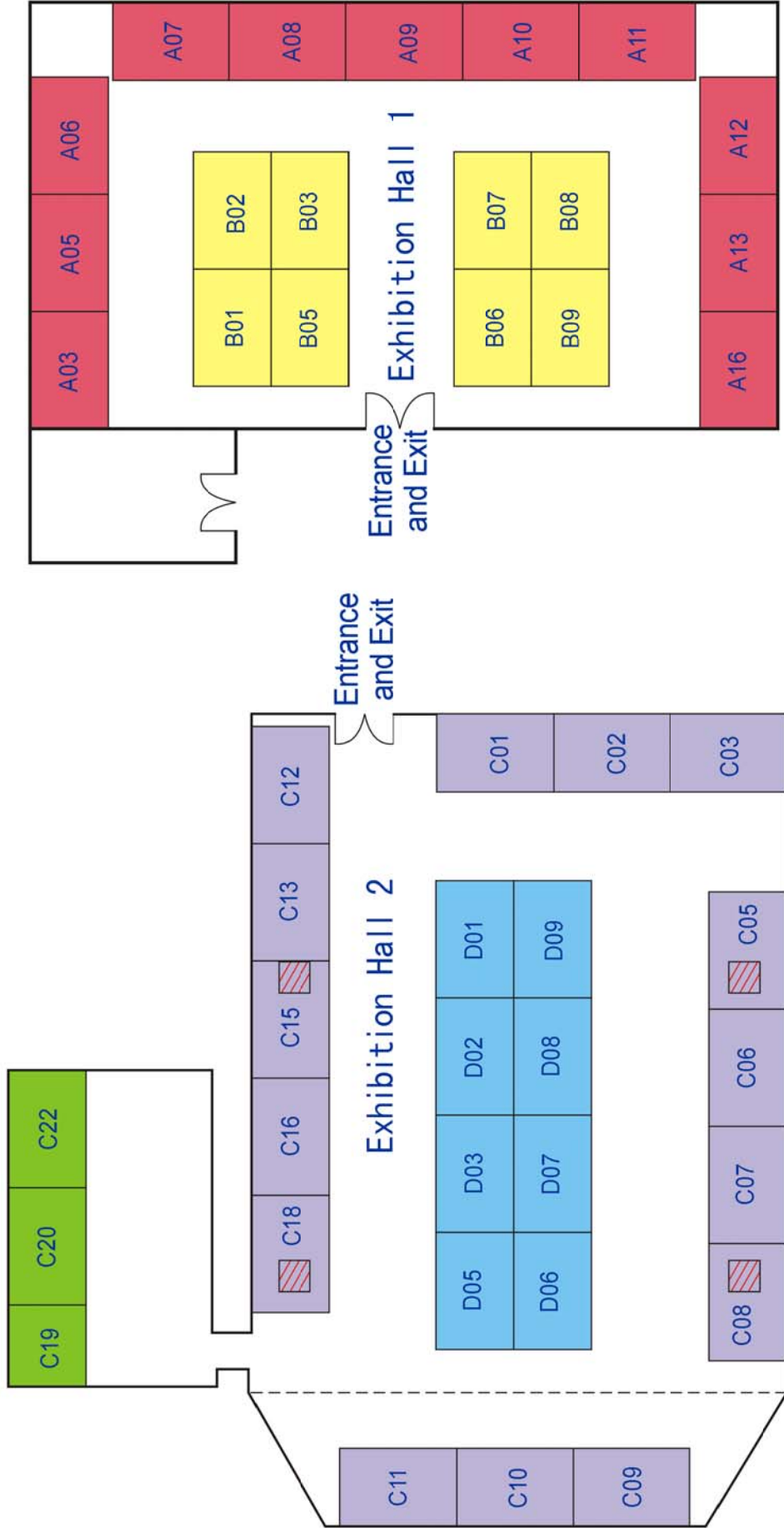
ICMMT2010 Exhibition Layout



2010 Microwave Industry Exhibition In China - Layout

Date: May 8-11, 2010

Venue: Chengdu Wangjiang Hotel P.R. China



Notices:

1. The distance between Exhibition Hall 1 and Exhibition Hall 2 is about 30m; the corridor between the two exhibition sites is Report District.
2. In Exhibition Hall 2, the floor on the left of the dotted line is 0.25m higher than that on the right; the distance between the dotted line and the left exhibition booths is 1.3m.
3. The size of C19 is 2m×2m, and the size of all the other booths is 2m×3m.

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