

Asia Pacific Microwave Conference, Hong Kong and Macau, China

Hong Kong Convention and Exhibition Center, December 16-19, 2008

Venetian Macau Resort Hotel, Macau, December 19-20, 2008

Technical Program

Tuesday, December 16	A0: Room 401	B0: Room 403	C0: Room 404	D0: Room 405	E0: Room 406	F0: Room 407	G0: Room 408	H0: Room 409	J0: Room 410
8:20-12:40	Registration	Short Course B0	Short Course C0	Short Course D0	Short Course E0	Short Course F0	Short Course G0	Short Course H0	
	A0	Room 301 A & B, New Wing, Hong Kong Convention and Exhibition Center							
13:40-18:00	Registration	Opening Ceremony and Plenary Session							
Wednesday, December 17	A1	B1	C1	D1	E1	F1	G1	H1	J1
8:20-12:40	APMC Prize Competition Active Components & Devices	Power Divider & Diplexer	Resonator & Discrete Devices	Optimization & Preconditioning	RFID Systems	Modeling & Simulation	Microwave Antennas	Frequency Selective Surfaces	Electromagnetic Interference
	A2	B2	C2	D2	E2	F2	G2	H2	J2
13:40-18:00	APMC Prize Competition Passive Components & Devices	SIW Technologies	Linearization Techniques	CMOS Front-Ends	RFID Components	Modeling	Analysis	Scattering & Propagation	Metamaterials
Thursday, December 18	A3	B3	C3	D3	E3	F3	G3	H3	J3
8:20-12:40	APMC Prize Competition Analysis & Applications	Resonator Filters	Amplifiers & Oscillators	CMOS Amplifiers	UWB/ISM Antennas	Wave Guiding Structures	Handset Antennas	Imaging Techniques	Left-Hand Materials
	A4	B4	C4	D4	E4	F4	G4	H4	J4
13:40-18:00	APMC Student Prize Competition	Multi-Band BPF	Active Devices & Components	CMOS Components	UWB Components	Computational Techniques	Low-Profile Antennas	Frequency Domain Techniques	Measurement
Friday, December 19	A5	B5	C5	D5	E5	F5	G5	H5	J5
8:20-12:20	Interactive Presentation	Band Gap Technologies	Voltage-Control Oscillators	HEMT Technologies	Medical Effects	FDTD Schemes	Arrays	Radars	Grounding & Manufacturing
	A6	B6	C6	D6	E6	F6	G6	H6	J6
13:40-18:00	Interactive Presentation	Filter Design Technologies	Front-Ends	HBT & Other Devices	MEMS & Coupling	Time Domain & Iteration	Beam Forming Arrays	FET Technologies	Special Materials
Saturday, December 20	A7: Room 2201	B7: Room 2204							
8:20-12:40	Eminent Scholar Talks	60 GHz Systems							
	A8	G8							
13:40-18:00	IEEE Distinguished Lecturer Talks	Advances in Small and Mobile Antennas							

Color Code	Passive Devices & Components	Antenna Design & Arrays	Active Devices and Components	Radio Frequency Integrated Circuits
Wave Scattering & Imaging Techniques	EMC/EMI Grounding & Measurement	Materials	General Purpose	Analysis, Modelling and Computation

Title Index

A0 Opening Ceremony & Plenary Session Tuesday 14:30-17:40 Rooms 301 A & B

- A0-01 Welcoming Speech, Wei Kuo, President, City University of Hong Kong
- A0-02 New Challenges of the MTT-S as a Transnational Organization, Josef Modelski, President IEEE MTT-S
- A0-03 Era of Artificial Perception and Vote of Thanks, Edward Kai-Ning Yung, General Chairman, APMC-2008
- A0-04 Revisit of Historical Development on Applied Electromagnetics, Weng-Cho Chew
- A0-05 Development of National Standards for Wireless Communications Systems in China
- A0-06 Microwave Education and Research, Kai Chang, Editor-in-Chief, Wiley Inter-Science
- A0-07 Mass Production of Microwave Products for Sustainable Development, Kei-Biu Chan

<i>Code</i>	<i>Session</i>	<i>Date</i>	<i>Time</i>	<i>Room</i>	<i>Chair Person</i>
A1	APMC Prize Competition	Wednesday	08:20-12:40	Room 401	Tatsuo Itoh

- A1-01 Dual-Band Upconversion Gilbert Mixer Utilizing an LC Current Mirror
- A1-02 Trifilar-Coupling QVCO using 0.35- μm SiGe HBT Technology
- A1-03 2-6GHz Current-reused LNA with Transformer-Type Inductors
- A1-04 A Switched-Capacitor Current-Reused VCO with Symmetrical Differential Outputs
- A1-05 Low Voltage Multi-Band Voltage-Controlled Oscillator for MB-OFDM UWB Systems
- A1-06 Low-Voltage Miller Divide-by-Three Circuit Integrated with a 1.5-GHz QVCO
- A1-07 Design of a Dual-Band VCO Module with Harmonic Suppression
- A1-08 7.42-8.52GHz Low Phase Noise VCO with Harmonics Suppressed and Using Capacitance Ground
- A1-09 A Fully Integrated 24 GHz Sub-Harmonic Image Rejection Mixer with Quadrature Coupler
- A1-10 A Novel Harmonic Suppression Method Based on the Phase Characteristics of Plasma
- A1-11 Performance Evaluation in the Presence of Timing Jitter Using a Novel Pulse Design Based on Hermite Functions for UWB Communications
- A1-12 A Digital Sum-Difference Millimeter Wave Monopulse System Based on Microstrip Array Antenna
- A1-13 Linear and Nonlinear Memory Effects of RF Power Amplifiers
- A1-14 Broad Tuning Ultra Low Noise Ku Band Dielectric Resonators Oscillators
- A1-15 A 24-40GHz Monolithic Balanced Low Noise Amplifier
- A1-16 Low Power Quadrature-Input Programmable Frequency Divider
- A1-17 A waveguide-Based Coupled Oscillator Array for Spatial Power Combining with Voltage-Tunable FSS
- A1-18 A Sub-Millimeter Wave Frequency Divider with High Division Ratio and Low Power Consumption
- A1-19 A Study on Transducer Type Isolator Using YIG Single Crystal
- A1-20 Design of 13dBm IIP3 DVB-S.2 RF Receiver with Auto Calibration Technique
- A1-21 Transformer Design and Optimization for Handset Power Amplifier
- A1-22 A Quad-band Front-end Module for Wi-Fi and WiMAX Applications Using FBAR and LTCC Technology
- A1-23 Ku-band MMIC Power Amplifier with On-Chip Compensation Gate Bias Circuit
- A1-24 94GHz Waveguide VCO Using InP Gunn Diode for FMCW Radar Applications
- A1-25 Low Phase Noise Push-Push VCO Using Microstrip Square Open Loop Resonator and Tunable Negative Resistance
- A1-26 A Low Noise Figure High Linearity Balanced Amplifier Module for Cellular Band Basestation Tower Mounted Amplifier Application Using E-mode pHEMT Technology
- A1-27 Design A New Type of Active Quasi Circulator Module
- A1-28 GaAs Membrane-Supported 60 GHz Receiver with Double Folded Slot Antenna
- A1-29 A Generic, Multi-Purpose, and Small-Size 60 GHz Transmit/Receive Module used for Secure WLAN Communication
- A1-30 UWB Fully Integrated Microwave Reflectometer In Multi-Layer Microstrip-Slot Technology
- A1-31 RF MEMS Design for 60-GHz Phase Shifters
- A1-32 Design of a 60 GHz Transceiver Module with Integrated Antenna
- A1-33 Fully Differential Single-Sideband Diode Ring Mixer using Optimum CPS Design Techniques
- A1-34 Power Combining Multiplier using HBV Diodes at 260 GHz
- A1-35 Millimeter-Wave Wireless Power Transfer Technology for Space Applications
- A1-36 L-Band Power Amplifier Exhibits Highest Ruggedness Rating
- A1-37 Accurate Modeling Noise Characteristic of Microwave Field-Effect Transistor
- A1-38 A Digitally Switched Band Groups CMOS Low Noise Amplifier for MB-OFDM UWB & DS-UWB Wireless Receiver
- A1-39 A 40-80-GHz mHEMT Single-Pole-Double-Throw Switch using Traveling-Wave Concept
- A1-40 A GaAs-Based HBT 31-GHz Frequency Doubler with an On-Chip Voltage Source
- A1-41 A 25-55 GHz CMOS Sub-harmonic Direct-conversion Mixer for BPSK Demodulator
- A1-42 RF Front-end MMIC for Wi-Fi/WiMAX Applications
- A1-43 40-GHz CMOS Subharmonic Gilbert Mixer with Quadrature Injection-Locked Frequency Divider
- A1-44 24-GHz MMIC Development using 0.15- μm GaAs PHEMT Process for Automotive Radar Applications
- A1-45 A Compact Size Ka Band pHEMT MMIC Frequency Tripler using Lump Element Balun
- A1-46 On the Noise Performance of 80nm InAs/In_{0.7}Ga_{0.3}As HEMTs using Gate Sinking Technology
- A1-47 Eightfold-Band Differential SiGe HBT Amplifier using Stacked LC-Tank Circuits
- A1-48 GaN X-band 43% Internally-Matched FET with 60W Output Power
- A1-49 Linearity-Optimized Class-E GaN HEMT Doherty Amplifier
- A1-50 MOS Varactor Modeling for mm-Wave Applications
- A1-51 A Inductorless Non-Coherent IR-UWB CMOS Receiver for 3-5GHz Band Applications

- A1-52 Eye safe Laser Radar using a Microchip Laser, 2-dimensional InGaAs/InP Photodiode Arrays and the Bi-axial Optical Lens System
 A1-53 Ultra Wideband Low Noise Amplifier using metamorphic HEMT on Organic Substrate
 A1-54 A 28.5GHz RF Receiver Front-End on a 70GHz ft SiGe BiCMOS Process
 A1-55 Low Phase Noise MMIC Oscillators in InGaP HBT Technology
 A1-56 On-chip Millimeter Wave Rat-race Hybrid and Marchand Balun in 0.13um BiCMOS Technology
 A1-57 E-Plane Directional Couplers in Substrate-Integrated Waveguide Technology
 A1-58 Fully integrated High Power RF Front-end Circuits in 2 GHz using 0.18um Standard CMOS Process

B1 Power Divider and Diplexer Wednesday 08:20-12:40 Room 403 Michael Kwok-Kung Cheng

- B1-01 Compact Dual-band Power Divider Design using Branch-lines and Resistors Only
 B1-02 Isolation Characteristics of Microstrip Wilkinson Dual-band Power Divider
 B1-03 Branch-line Hybrids with - 15 dB Coupling Power
 B1-04 Planar Four-Way Power Divider using Impedance-Transforming Branch-Line Couplers
 B1-05 Multilayer 180 Hybrid in LTCC
 B1-06 Miniaturized Microstrip Power Divider using an Improved Substrate Integrated Artificial Dielectric Structure
 B1-07 A Broad-Band 3-dB In-Phase Divider for Millimeter-wave Lengths
 B1-08 Design of H-Plane Waveguide Cruciform Hybrid using Dielectric Posts
 B1-09 Unequal Wilkinson Power Dividers with In-/Reverse-Phase using Lumped-Element Circuits
 B1-10 Thermal and Electromagnetic Analysis of a High-Power Divider
 B1-11 A Compact Diplexer using Square Open Loop with Stepped Impedance Resonators

C1 Resonator and Discrete Devices Wednesday 08:20-12:40 Room 404 Yoshio Nikawa

- C1-01 Compact S-shaped Resonator Loaded Waveguide Bandpass Filters
 C1-02 Asymmetric Dual-mode Microstrip Square Loop Resonators and Filters
 C1-03 Effect of Structural Misalignment in a Open Coaxial Resonator
 C1-04 Very Thin Open Ring Resonator BPF with Flexible Bandwidth Control
 C1-05 A Compact Dual-mode Microstrip Filter using Hexagonal Resonator and Capacitive Loading Technique
 C1-06 Design of VCO using On-Chip CPW Resonator for 5GHz-Band Wireless Applications
 C1-07 A Novel Miniature Dual-Mode Filter Based on Modified Sierpinski Fractal Resonator
 C1-08 RF Vector Sum Phase Shifter using a novel Variable Directional Coupler
 C1-09 Un-symmetric Two Half-Wavelength Resonators Bandpass Filter Design and its Equivalent Circuit Model
 C1-10 EM Coupling Patch Array in Multimode Cavity Resonator
 C1-11 A Miniaturized LTCC Folded Finite-Ground-Width CPW Resonator Filter For WLAN

D1 Optimization and Preconditioning Wednesday 08:20-12:40 Room 405 Hon-Tat Hui

- D1-01 A Simple Procedure for Evaluating the Impedance Matrix of the Peano-Gosper Fractal Array
 D1-02 Automated Synthesis of Microwave Filters using Modular Neural Networks
 D1-03 A Fast Hybrid Model for Analyzing Nonlinearly Loaded Antenna and Finite Antenna Array in the Frequency Domain
 D1-04 Loop Tree Basis Functions and Incomplete Cholesky Preconditioner for Low Frequency Scattering
 D1-05 On the Realization of the Optimum Transmission Strategy in MIMO Systems
 D1-06 Comparison of Differential Evolution and Particle Swarm Optimization in One-Dimensional Reconstruction Problems
 D1-07 Optimized Symplectic Scheme for Electromagnetic Simulations
 D1-08 Domino Optimization Method for the Low Dropout Regulator Design Automation
 D1-09 A Novel Preconditioner for the Finite-element Boundary Integral Analysis of Electromagnetic Scattering
 D1-10 An Improved SAI Preconditioning for Higher Order FMM Implementation
 D1-11 SSOR Preconditioner Accelerated Time Domain Finite Element Boundary Integral Method

E1 RFID Systems Wednesday 08:20-12:40 Room 406 Raj Mittra & Xian-Ming Qing

- E1-01 Radio Frequency Identification Systems--Present Status, Design Challenges and Future Outlook (Invited paper)
 E1-02 Platform Effect on RFID Tag Antennas and Co-design Considerations (Invited paper)
 E1-03 Radiation Characteristics of Small and Low Profile Print Antenna using Peano Line (Invited paper)
 E1-04 Radiation Efficiency Improvement Method of RFID Tag Antenna for Metallic Objects Printed on Lossy Substrate (Invited paper)
 E1-05 An Analog Front-end for 13.56MHz Multi Standard RFID System (Invited paper)
 E1-06 Performance of RFID Bowtie Tag Antenna with Different Impedance Matching (Invited paper)
 E1-07 Localization of RFID tags using arbitrary reader antenna arrays (Invited paper)
 E1-08 Design of a UHF RFID Fiber Tag Antenna with Electric-thread using a Sewing Machine (Invited paper)
 E1-09 Design of a UHF RFID Metal Tag for Long Reading Range using a Cavity Structure (Invited paper)
 E1-10 A Wide-Band Slotted Antenna for On-Body UHF RFID Applications
 E1-11 A Novel 2.4GHz Quasi Yagi Tag Antenna for RFID of Metallic Object
 E1-12 On the Behavior of a Novel Miniaturized G-Planar Antenna in the Presence of an Infinity Metal Plane

F1 Modeling and Simulation Wednesday 08:20-12:40 Room 407 Weng-Cho Chew & Zai-Ping Nie

- F1-01 An Improved Thin-Stratified Medium Fast Algorithm for General Microstrip Structures (Invited paper)
 F1-02 A Modified Conformal Technique for Modeling PEC Surfaces (Invited paper)
 F1-03 Multi-layer Current Sheets Equivalence Used to Numerical Solution for Dielectric Objects (Invited paper)
 F1-04 Numerical Solution for Dielectric-Coated PEC Targets Based on Multi-layer Current Sheets Equivalence (Invited paper)
 F1-05 Resonance Based Radar Target Identification using Principal Component Analysis (Invited paper)

- F1-06 Latency Insertion Method for the Analysis of Steady State On-Chip Power Distribution Networks and Transient Simulation of Lossy Interconnects (Invited paper)
- F1-07 Analysis of Aircraft-Mounted Antennas using Modified Current-Based Hybrid Technique (Invited paper)
- F1-08 Simulation of Structures Situated in a Layered Medium at Low Frequencies (Invited paper)
- F1-09 A Set of Novel Surface Integral Equations for Electromagnetic Scattering from Homogeneous Penetrable Objects (Invited paper)
- F1-10 Analysis of Finite and Curved FSS using Surface-Volume Integral Equation and Multilevel Fast Multipole Algorithm (Invited paper)
- F1-11 Two Dimensional Microwave Image Reconstruction using a Simple Interpolation Scheme (Invited paper)

G1 Microwave Antennas Wednesday 08:20-12:40 Room 408 Cheng-Fu Yang

- G1-01 Analysis and Design of a Satellite-borne Wide-beam Quadrifilar Helix Antenna
- G1-02 A Numerical Analyses of the Antenna Shapes Effects on the Indoor MIMO Capacity
- G1-03 An Efficient Ladder Reflector Antenna for Inter-Chip Communications
- G1-04 Millimeter Wave Detection Arrays
- G1-05 Directional Antennas for Wireless Interchip Interconnections
- G1-06 Study of a Reduce-surface-wave Antenna
- G1-07 A Tactical Broadband Omnidirectional Antenna
- G1-08 Single-Feed Circularly Polarized Antenna for CNSS Dual-Band Applications
- G1-09 Analysis of Mutual Coupling Effects on Channel Capacity of Rician MIMO Channel
- G1-10 Development of Dual-Frequency CPW-fed Monopole Antennas on the Al₂O₃ Substrates
- G1-11 Small Omni-directional Patch Antenna---with Ultra Wide Impedance Bandwidth
- G1-12 Study on Miniaturization and Broadband of Patch Antenna using Magneto-dielectric Substrate

H1 Frequency Selective Surfaces Wednesday 08:20-12:40 Room 409 Dao-Xiang Wang

- H1-01 Analysis of Frequency Selective Surface and Multiplexer
- H1-02 A Wide Band Scattering Analysis of Conformal FSS by CBFM and SVD method
- H1-03 Design of Frequency Selective Surfaces by Powell Algorithm
- H1-04 A Method for Subsurface Metallic Landmine Identification in GPSAR
- H1-05 Design of Multiband Frequency Selective Surface using Fractal Elements
- H1-06 Study on the Electromagnetic Scattering from Non-Gaussian Rough Surface Based on the Modified Power-Law Spectrum
- H1-07 60 GHz Broadband Wireless Transmission Experiments in a NLOS Indoor Environment
- H1-08 Electromagnetic Analysis of Electrically large and Finite periodic Frequency Selective Surfaces
- H1-09 Harmonic Balance Analysis of a Frequency Selective Surface Loaded with a Nonlinear Element
- H1-10 EHF Rotman Lens for Electronic Scanning Antennas
- H1-11 A Hybrid de-Embedding Technique and its Application for FSS Characterization

J1 Electromagnetic Interference Wednesday 08:20-12:40 Room 410 Dong-Ii Kim

- J1-01 The Study of EMI for Antenna-in-Package
- J1-02 Temperature Effects on Crosstalk in Carbon Nanotube Interconnects
- J1-03 Analysis of Polarization Characteristics of Electromagnetic Radiation from PCB
- J1-04 Isolation Improvement between Antennas with Band-stop Structures
- J1-05 Impact of Material Parameters on the Energy Consumption for Amplify and Forward Relays
- J1-06 Reaserch of HVDC Converter Valve Tower Radiation model
- J1-07 Development of Electromagnetic Wave Absorbers to Improve ETC Communication Environment
- J1-08 Development of EM Wave Absorber for Electromagnetic Enviroment of 2.4 GHz Wireless LAN
- J1-09 Interference and Coverage Prediction using the Computational Simulated Protection Ratio
- J1-10 Optimal Geometry of Two-element Periodic Cell
- J1-11 Electromagnetic Simulation of the EMI Shield Package with Aperture

A2 APMC Prize Competition Wednesday 13:40-18:00 Room 401 Ching P. Wen

- A2-01 94-GHz Substrate Integrated Waveguide Single-Board Multiple Antennas with High Isolation Characteristic
- A2-02 Compact and Broadband Power Divider using Composite Right/Left Handed Transmission Line
- A2-03 Novel Miniature LTCC UWB(Ultra-Wide Band) Bandpass Filter
- A2-04 Dual-Mode Bandpass Filter with Stacked Defected Ground Structures
- A2-05 Generalized Chebyshev Response Parallel-Coupled filter with Suppression of 2f₀ Spurious Passband
- A2-06 Bandstop Filter Design using the Suspended Stripline Structure
- A2-07 A Dual-mode Rectangular Ring Bandpass Filter with Transmission Zeros on LTCC
- A2-08 Design of Dual-Band Bandpass Filter using Compact Spiral-Shaped Microstrip Resonators
- A2-09 Design of Dual-Band Branch Line Couplers with Circuit Miniaturization
- A2-10 A Novel Compact LC Resonator-Based Bandpass Filter Design with Tunable Transmission Zeros
- A2-11 A Novel Compact Microstrip Dual-Band Bandpass Filter based on Transversal Filter Structure and Centrally Loaded Resonator with Independent Control of Passbands
- A2-12 Compact Chebyshev-Function Low-Pass Filters with Stepped-Impedance Hairpin Unit
- A2-13 Investigation and Characterization of Millimeter-wave Transmission Lines and Bandpass Filters on Liquid Crystal Polymer
- A2-14 Wideband Microstrip Ring Resonator Bandpass Filter with Asymmetrically-Loaded Stubs
- A2-15 New 4-pole Dual-mode Resonator Filter using Composite-Right/Left-Handed line
- A2-16 Ultra-Wideband (UWB) Bandpass Filter Composed of Asymmetric E-shaped Electrodes for Improved Out-of-Passband

- A2-17 Analysis of Stripline Circuit Consisting of 45 Degrees Bend and Waveguide by Mode Theory Based Equivalent Network
- A2-18 A W-Band Tripler with a Novel Band Pass Filter on Thin-film Substrate
- A2-19 A CPW Ultrawide Band Filter with Superior Off-band Performance
- A2-20 Dual-Mode Dual-band Microstrip Square Loop Resonators and Filters
- A2-21 Dual-mode Microstrip Bandstop Filters
- A2-22 A Wide Band Transition from Waveguide to Differential Microstrip Lines
- A2-23 Design of Bandpass Filter in W-Band on a Silicon Membrane
- A2-24 Size Reduction of Synthesized Elliptical Substrate Lenses using Air Cavities
- A2-25 Optically Controlled Millimeter-Wave Parallel Guide Directional Coupler in Image Guide Technology
- A2-26 UWB Bandpass Filter with Tunable Notch on Liquid Crystal Polymer Substrate
- A2-27 Compact Metamaterial High Isolation MIMO Antenna Subsystem
- A2-28 Dual-Band Balun with Fully Matched Performance
- A2-29 Investigation on Some Novel Multi-Layered Cross-Coupled Substrate Integrated Waveguide (SIW) Circular Cavity Filters
- A2-30 A Double Layer Crossed Over Substrate Integrated Waveguide Wide Band Directional Coupler
- A2-31 Investigation of Wideband Printed Dipole Arrays with Parasite Elements for Wireless Mesh Network (WMN) Applications
- A2-32 A Novel Corner-fed Patch to Reduce Cross-polarization for a Microstrip Antenna Array
- A2-33 Design of a Planar Ultra-Wideband Monopole Antenna with WLAN Band-Notched Characteristic
- A2-34 Design of Millimeter-wave Conformal Microstrip Antenna Arrays
- A2-35 A Multilayered Rolled Inverted-F Antenna for Dual-band Mobile Phones
- A2-36 Compact Wide Band Circularly Polarized Vertical Patch Antenna
- A2-37 A New Method for Analyzing the Electromagnetic Characteristics of a Body of Complex Medium
- A2-38 Miniaturized Monopole Antenna for Ultra-Wide Band Operation
- A2-39 A Linear Retro- and Reflecto-Nulling Antenna Array
- A2-40 Quarter-Wavelength Printed Loop Antenna for GSM/DCS/PCS/UMTS Operation
- A2-41 Surface-Mount Loop Antenna for WWAN/WLAN/WiMAX Operation in the Mobile Phone
- A2-42 Single Fed Circularly Polarized Microstrip Antenna with C-Slot
- A2-43 Cross Patch Electromagnetic Band gap incorporated with Rectangular Patch Microstrip Antenna
- A2-44 Beam Scan Leaky Wave Antenna at a Fixed Frequency using Radiation Elements Switched by Diodes
- A2-45 Compact Meander-Type Antenna with a Two-Layer Structure for Bluetooth Operation
- A2-46 Design of an Internal Antenna for DVB-H Mobile Application
- A2-47 A Triple Resonance Planar Monopole Antenna with Coupling Element for Mobile Handset
- A2-48 Electronically Steerable Antenna using a Circular Patch Surrounded by a Reconfigurable Circular Mushroom-like Substrate
- A2-49 Integrated Air-filled Waveguide Antennas in LTCC for G-Band Operation
- A2-50 Novel Single-feed Proximity Coupled Wideband Circularly Polarized Slot Antenna
- A2-51 A Miniature Quasi-Self-Complementary Antenna for UWB Applications
- A2-52 A Broad Band Dual Polarized Azimuth Beam Width Adjustable Antenna for Wireless Communications
- A2-53 Stopped Electromagnetic Wave in an Air Waveguide with Anisotropic Metamaterial Cladding
- A2-54 Uniplanar Small Antenna using 2-D Interdigital Composite Right/left-handed (CRLH) Transmission Lines

B2 SIW Technologies Wednesday 13:40-18:00 Room 403 Wei Hong

- B2-01 Printed High Gain Quasi-Yagi Antenna Fed by Half Mode Substrate Integrated Waveguide (Invited paper)
- B2-02 Novel Two-Layer Broadband 4 x 4 Butler Matrix in SIW Technology for Ku-Band Applications
- B2-03 A Novel Hybrid Planar SIW Magic Tee
- B2-04 Design of Broadband Planar Orthomode Transducers using Substrate Integrated Waveguide
- B2-05 E-band "T" Shape Transitions between Substrate Integrated Waveguide and Standard Waveguide
- B2-06 Novel Substrate Integrated Waveguide Layer-to-layer Transitions
- B2-07 Novel Ka-band Substrate Integrated Folded Waveguide (SIFW) Quasi-elliptic filters in LTCC
- B2-08 A Novel Millimeter-Wave Substrate Integrated Waveguide (SIW) Filter buried in LTCC
- B2-09 Substrate Integrated Waveguide with Corrugated Wall
- B2-10 Compact Substrate Integrated Waveguide Resonators on LCP Substrate for mm-wave Wireless Systems
- B2-11 Metamaterial Transmission Line and Resonator using a New Concept of Substrate Integrated Coaxial Line

C2 Linearization Techniques Wednesday 13:40-18:00 Room 404 Wing-Shing Chan

- C2-01 High efficient, High Linearity Transmitter for Microwave Digital Radios
- C2-02 An Individual Order Predistorter based on Diode Series Feedback using Controlling Bias Voltages
- C2-03 Design of Low-Power High-Linearity Inductorless Mixer for UWB System
- C2-04 Performance Analysis of Feed-Forward Equalizers based on Passive and Active Delay Cells for Multi-Gb/s Optical Fiber Links
- C2-05 DDS-PLL Phased Source for Beam Control Active Phased Array
- C2-06 A Low - Power Programmable Gain Amplifier with Wide Dynamic Range and High linearity
- C2-07 Stability Enhancement of Digital Predistortion through Iterative Method to Solve System of Equations
- C2-08 Adaptive Digital Predistortion for The Power Amplifiers Based on Look-up Table with Tanh as a Nonlinear Indexing Function
- C2-09 Power Amplifier Linearization using Baseband Digital Predistortion for WiMAX Applications
- C2-10 Analog Predistorter Based on LDMOS Amplifier for WCDMA Repeater Application
- C2-11 Optical Predistortion Feedback Linearization for suppressing the Nonlinearity in Optical Amplifier

D2	CMOS Front-Ends	Wednesday 13:40-18:00	Room 405	Jong-Gwan Yook
D2-01	A 2.4GHz CMOS Front-End having Improved Antenna Isolation for Diversity			
D2-02	A 1V CMOS Up-Converter for Dual-Band GPS/Galileo Receivers			
D2-03	A Single Chip CMOS Transmitter for UWB Impulse Radar Applications			
D2-04	Design of SPST/SPDT Switches in 65nm CMOS for 60GHz Applications			
D2-05	Optimization of the NMOS and PMOS Gate Cross-connected Rectifier for RF Power Extraction in RFID Applications			
D2-06	Design of a 3.1-10.6 GHz Noise-Canceling CMOS UWB Receiver Front-end			
D2-07	CMOS Multi-Standard Wireless Direct-Conversion Receiver			
D2-08	Highly Sensitive CMOS Passive Wake-up Circuit			
D2-09	Unloaded Q-Factors of Thin Film Microstrip Resonators in 0.18- μ m CMOS for Millimeter Wave Applications			
D2-10	0.18 μ m CMOS Receiver Front-end for Non-invasive Cardiopulmonary Monitoring			
D2-11	Novel CMOS Voltage Sensor with Process Invariant Threshold for Passive UHF RFID Transponders			
E2	RFID Components	Wednesday 13:40-18:00	Room 406	Young-Ki Cho & Bom-Son Lee
E2-01	Review of RFID Tag Antenna Issues at UHF Band (Invited paper)			
E2-02	Small RFID Tag Antenna for Metallic Surface (Invited paper)			
E2-03	Ceramic Patch Antenna using Inductive Coupled Feed for UHF RFID Tag Mountable On Metallic Objects (Invited paper)			
E2-04	Direct-Conversion RF Transceiver and Modem IC for UHF RFID Reader System (Invited paper)			
E2-05	Design of a UHF Band RFID Tag Antenna for Library Management System Applications (Invited paper)			
E2-06	Design of an RFID Reader Antenna for Near-Field Communications using Opposite-Directed Currents (Invited paper)			
E2-07	A Novel Coupler Design for Passive RFID Reader with High Isolation (Invited paper)			
E2-08	Durability Design of Passive Tag Antenna for Logistic RFID System			
E2-09	Design of Flat Spiral Rectangular Loop Gate Antenna for HF-RFID Systems			
E2-10	Implementation and Application of UHF RFID Antenna			
E2-11	IEEE802.15.5/ZigBee RFID Tags and Readers for Vehicle Identification and Location Tracking System in Light Rail System in Hong Kong			
E2-12	The Design of Encoding Architecture for UHF RFID Applications			
F2	Modeling	Wednesday 13:40-18:00	Room 407	Tapan K. Sarkar
F2-01	Wideband Generation of RCS Data in the Frequency Domain using the Cauchy Method (Invited paper)			
F2-02	A Method of extracting on-chip Decoupling Cap through Board System Level (Invited paper)			
F2-03	Energy Patterns for UWB Antennas and Array (Invited paper)			
F2-04	Time-Domain Green's Function Technique for Highly-Dispersive Metamaterial Waveguide and Antenna Structures (Invited paper)			
F2-05	Electric Field and Temperature Distributions of a Continuous Fluidized Bed Microwave Paddy Drying System (Invited paper)			
F2-06	Rectangular Dielectric Resonator Quality Factor Enhancement using External Corner Posts (Invited paper)			
F2-07	0.14THz High Power Millimeter Wave Generation from a Relativistic Surface Wave Oscillator (Invited paper)			
F2-08	Parasitic Extraction of Interconnections in 3-D Packaging using Mixed Potential Integral Equation with Global Basis Functions (Invited paper)			
F2-09	A Novel Index for Identifying the P/G Noise Level through Failure Analysis			
F2-10	Accurate Closed-form Models of Equivalent Isotropic Relative Permittivity of Microstrip Line on Anisotropic Substrate			
F2-11	Characterizing EMONA TIMS-301 Modeling System for digital modulations			
G2	Analysis	Wednesday 13:40-18:00	Room 408	Eng-Leong Tan
G2-01	Analysis of Waveguide Structures using the MPSTD Algorithm			
G2-02	The Closed Form Representation of the Periodic Green's Function in Layered Media using Complex Images Technique			
G2-03	Lightweight Tissue-Equivalent Phantom for Evaluation of Antenna Performances			
G2-04	Geometrical Stability Criteria for Two-Port Networks in Invariant Imittance Parameters Representation			
G2-05	A Closed Form Spatial Green's Function for the Microstrip Structure using the Gaussian Expansion			
G2-06	An Original Approach for the Analysis of the Effect Source Resistance for FET Devices			
G2-07	Closed-form Dispersion Models for Propagation Characteristics of Slot-line in Lossy Media with Conductor Thickness			
G2-08	Inversion of Phaseless Total Field Data by Reconstructing the Equivalent Radiating Currents			
G2-09	Generalized Eigenproblem of Hybrid Matrix Method for Stable Analysis of Periodic Multilayered Bianisotropic Media			
G2-10	A Novel integral Equation for EM Scattering by Dielectric Objects in Half-space			
G2-11	Modal-Expansion Analysis of a Monopole in Reverberation Chamber			
H2	Scattering and Propagation	Wednesday 13:40-18:00	Room 409	De-Biao Ge
H2-01	The Study of EM Scattering from a Target above a Dielectric Sea Surface			
H2-02	Small Targets Detection in Low Resolution Sea Clutter			
H2-03	Wideband Scattering of a Combinative Object including PEC and Plasma			
H2-04	Octree Based Technique for Fast Analyzing Shadowing Relationship of Complex Target			
H2-05	High Order MoM Solution of Dielectric and Dielectrically Coated Conducting Target Electromagnetic Scattering Problems			
H2-06	Electromagnetic Scattering of Gaussian Beam by an Uniaxial Anisotropic Sphere			
H2-07	Improvement Mixed-form Fast Multipole Method Algorithm for Solving Low-frequency Scattering Problems			
H2-08	New Application of Microwave Power Transmission for Wireless Power Distribution System in Buildings			
H2-09	Computation and Effect of Phase of Scattering Field by Targets			
H2-10	Analysis of Possible Seismo-ionosphere Perturbations Before the Strong Sichuan Earthquake on May 12, 2008 using DEMETER Data			

H2-11 Design and Experiment of a Rectifying Antenna for 900 MHz Wireless Power Transmission
H2-12 Electromagnetic Scattering from Perfectly Conducting Bodies of Revolution above Half Space

J2 Metamaterials Wednesday 13:40-18:00 Room 410 Tah-Hsiung Chu

J2-01 Beam Forming using a Zero-Phase-Shift Metamaterial
J2-02 Analysis and Design of an Active Lens Implemented by Planar Distributed Metamaterials
J2-03 Novel Microwave Diplexer System Based on Planar Waveguide and Metamaterial Technologies
J2-04 Dispersionless Phase Responses of Pseudoperiodic Metamaterials based on CRLH Transmission Lines
J2-05 A Compact Antenna Based on Metamaterial for WiMAX
J2-06 Extraordinary Transmission with Evanescent Wave Enhancement in Planar Waveguide Loaded with Anisotropic Metamaterials
J2-07 CRLH Metamaterial Receiving Leaky Wave Antenna Integrated with Distributed Amplifier
J2-08 FEBI Solution of Scattering from 3D Bianisotropic Medium objects above a Lossy Half Space
J2-09 Analysis of Resonant-type Metamaterial Transmission Lines on the Basis of their Equivalent Circuit Models
J2-10 Application of Metamaterial in Microwave Energy Absorption
J2-11 Subwavelength Imaging using Loaded Transmission Line Metamaterial Slab Excited by an Embedded Source

A3 APMC Prize Competition Thursday 08:20-12:40 Room 401 Weng-Cho Chew

A3-01 Micromachined Rectangular Coaxial Line and Cavity Resonator for 77 GHz Applications using SU8 Photoresist
A3-02 The development and Design of a Novel Chipless RFID System for Low-Cost Item Tracking
A3-03 A Performance Evaluation and Analysis of Capture Effect in RFID System
A3-04 Ultra Wideband Microwave Imaging and Localisation of Breast Cancer
A3-05 Multi-Element Arrangements of Back-to-Back E-Shaped Patches for MIMO-Enabled Laptops
A3-06 Capacity Investigations of MIMO Systems in Correlated Rician Fading Channel using Statistical Multi-Clustered Modelling
A3-07 A Study on Compatibility Between ZigBee Devices in Multiple Integrated Laser Engagement System
A3-08 Optimum ON/OFF Resistances of the ASK modulator for Passive RFID Tags
A3-09 Directivity Design of RFID Tag Antenna using Side-view Mirror for Vehicle
A3-10 Improving the Acceleration of Ray Tracing Estimation in an Urban Environment
A3-11 10-Gbit/s Data Transmission with Forward Error Correction using a 120-GHz-band Wireless Link
A3-12 Variability of Whole-body Average SAR in Human Models for Far-Field Exposures
A3-13 Simulation Study and Experiment of Breast Cancer Detection using an Ultrashort-Pulse Radar
A3-14 Low-Noise Wide-Dynamic-Range CMOS Analog Front-End IC for Portable Biomedical Applications
A3-15 Development of The First Chinese Electromagnetic Human Model and Its Use for SAR Calculations
A3-16 Compact Passive RFID tag Mountable on Metallic Plates
A3-17 High-Order Conformal Symplectic FDTD Scheme
A3-18 Finite-Difference Time-Domain Analysis of Dispersive Transmission Lines
A3-19 Application of the Jury Test in Stability Analysis of an Explicit Fourth-order Staggered FDTD Method
A3-20 The Application of Lifting Wavelet-Like Transform to Fast Multipole Method
A3-21 A New RPEEC Model for Antenna Design
A3-22 A Transform Domain Technique for Suppressing Narrowband Interference in Ultra-wideband System
A3-23 Application of Two-Step Preconditioning Technique to the Crank-Nicolson Finite-Difference Time-Domain Method for Analyzing 3-D Planar Circuits
A3-24 An Improved STAP Algorithm by Applying APES
A3-25 Identification of Memory Polynomial Nonlinear Models for RF Power Amplifiers with a Systolic Array Based QRD-RLS Algorithm
A3-26 Hybrid CFIE- IEFIE Solution of Composite Structures with Coexisting Open and Closed Surfaces
A3-27 Efficient Technique for Analyzing the Planar Periodic Structures in Layered Media
A3-28 The Enlarged Cell Technique in FDTD Method at The Dielectric Curved Surface
A3-29 Finite-Element Time-Domain Method Combined with Finite-element Tearing and Interconnecting Algorithm and Its Application for Electromagnetic Band Gap Structure
A3-30 High-order Parabolic Equation Method for Electromagnetic Computation
A3-31 Temperature-Dependent Millimeter-Wave Scalable Large-Signal Model for 90nm CMOS
A3-32 A Low Profile and Compact CDMA/GPS Multi Antenna System for ECS
A3-33 Time-Domain Response of Planar Monopole Ultra Wideband Antennas Excited by EMPs
A3-34 Miniaturized Dualband Loaded Frequency Selective Surfaces with Close Band Spacing
A3-35 Transient Electro-Thermo-Mechanical Responses of Wire Bonding Interconnects Illuminated by an Electromagnetic Pulse
A3-36 Wide-band Scattering from A Three-Dimensional Randomly Rough Surface in Spectral FDTD Algorithm
A3-37 Propagation of Terahertz Pulses on Polymer-based Coplanar Striplines
A3-38 An Experimental Study of Attenuation through Vegetation for Efficient Areal Frequency Utilization by Quasi-mm Wave Band FWA System
A3-39 Investigation of Common-Mode Radiated Emission from PCB with a Bent Signal Line and Attached Cables
A3-40 Magnetic Field Distributions of Two-Slot Array Antenna on a Concentric Sectoral Cylindrical Resonator Excited by a Coupling Slot
A3-41 Positive Hand Effects on Mobile Handset Antennas
A3-42 Investigations on Linear Coupling Function of UWB Pulse into Computer Case
A3-43 Tag-to-tag Influence Pattern on RSSI
A3-44 A Meandered V-shaped Slotted Ground Structure and Its Application to Ultrawideband Pulse Shaper
A3-45 Employing a Compact PCB Antenna to Survey the EMI Noises for Transceivers Performance-based Test
A3-46 An Experimental Validation of a Detailed Numerical Model for Predicting Implantable Medical Devices EMI due to Low-band RFID Reader/writers
A3-47 Analysis of 3rd-Order Passive Intermodulation Generated from Metallic Materials

- A3-48 A Consideration of Sensitivity of Non-Contact PIM Measurement
- A3-49 The Metamaterial-based Isotropic Periodical Antenna with Efficiency Enhancement
- A3-50 High Performance Integrated Passive Technology by SI-GaAs-Based Fabrication for RF Applications
- A3-51 Regulatory Radiation Limit of Intermodulation Interference between AMPS Receiver and Low Power Radio Devices
- A3-52 RF performance of CPW Transmission Line Fabricated with Inkjet Printing Technology
- A3-53 Broadband Dipole on a U-Shaped Cross-Sectional Ground Plane Antenna
- A3-54 Realization of Dual Bandpass Filters with Metamaterials in Three Coupled Finlines
- A3-55 Metal Plate Lens in a Focused Beam System for Microwave Material Testing
- A3-56 Layer-to-Layer Ceramic Stereolithography for the Design of Extended Hemispherical Lenses at 60 GHz
- A3-57 Interference Between Ground Plane and Bilog Antenna and its Effect on EMI Measurement Uncertainty

B3 Resonator Filters Thursday 08:20-12:40 Room 403 Jen-Tsai Kuo

- B3-01 Novel Low-Impedance Microstrip Structures for Miniaturized Microstrip Quarter-Wave Stepped-Impedance Resonator Filters
- B3-02 A UHF Helical Resonator Filter
- B3-03 Compact Stepped-Impedance Resonator Bandpass Filter with Two Wide Spread Passbands
- B3-04 Miniaturized Quadruple-Mode Periodic Stepped-Impedance Coupled-Ring Resonator Bandpass Filter with Sharp Transition Band and Wide Stopband
- B3-05 A Compact High-Selective Stripline SIR Bandpass Filter embedded in LTCC
- B3-06 Design, Fabricate and Tuning of an 8-pole Cross-coupling Resonator HTS Filter
- B3-07 I-shape Resonator for Band Notch Filter Design
- B3-08 Ring Resonator Based Bandpass Filter Enabling Enhanced Sideband Suppression
- B3-09 A Dual-Mode Wide-Band Bandpass Filter using Slotted Patch Resonator with Tuning Stubs
- B3-10 A Wide-Band Bandpass Filter using the Properties of Microstrip Open-Loop Resonator with Spurious Response Suppression

C3 Amplifiers and Oscillators Thursday 08:20-12:40 Room 404 Makoto Taromaru

- C3-01 Design and THz Characteristics of Hexagonal and Cubic SiC based Photo-Irradiated IMPATT Oscillators
- C3-02 Performance of an Extended Behavioral Model for Wideband Amplifiers
- C3-03 Microwave Push-pull Power Amplifier using Metamaterial-based Baluns
- C3-04 A Miniaturized High Performance Power Amplifier Module for 3G Handset Application
- C3-05 SAW Oscillator Based Clock Recovery for High Speed Serial Data Transmission
- C3-06 A 30GHz Bandwidth Driver Amplifier with High Output Voltage Swing for Ultra-Wideband Localization- and Sensor Systems
- C3-07 A 10-45GHz Distributed Low Noise Amplifier MMIC with Cascode FETs
- C3-08 A 2 GHz, 85W Uneven GaN Doherty Power Amplifier
- C3-09 A Study of Switchable Dual-Frequency Oscillator for 60GHz FSK Modulation
- C3-10 2.46GHz Solid-State High-Power Oscillator with a Planar Cavity Resonator
- C3-11 A 6-20GHz Broadband GaAs MMIC Medium Power Amplifier

D3 CMOS Amplifiers Thursday 08:20-12:40 Room 405 Kwok-Wai Lau

- D3-01 Low Power CMOS LNA Design Optimization Techniques
- D3-02 A 20GHz, 20dBm Pseudo-Differential Power Amplifier in Standard 90nm CMOS
- D3-03 High-Linearity CMOS Feedforward Power Amplifier for WiMAX application
- D3-04 A 9-GHz Dual-Modulus 0.18um CMOS Prescaler using HLO-FF Technique
- D3-05 Design of a 0.13- μ m V-band Millimeter-Wave CMOS Low-Noise Amplifier and Measurement Methodology
- D3-06 Systematic Design and Development Procedures for a Successful CMOS LNA Implementation
- D3-07 A Three-Stage 60GHz CMOS LNA using Dual Noise-Matching Technique for 5dB NF
- D3-08 A 5GHz/1.8V Low Power CMOS Low-Noise Amplifier
- D3-09 A 5GHz/1.8V CMOS Active Balun Integrated with LNA
- D3-10 24-GHz 0.18- μ m CMOS Four-Stage Transmission Line-Based Amplifier with High Gain-Area Efficiency
- D3-11 A Novel Tunable Dual-band Low Noise Amplifier for 868/915 MHz and 2.4 GHz Zigbee Application by 0.35 um CMOS Technology.

E3 UWB/ISM Antennas Thursday 08:20-12:40 Room 406 Jui-Ching Cheng

- E3-01 Compact Ultra-wideband T-shaped CPW-fed Monopole-like Slot Antenna
- E3-02 Analysis and Design of Ultra-Wideband Planar Tapered Slot Antenna Arrays
- E3-03 Design of Ultra Wideband Monopole Antenna using Symmetrical Open Loops
- E3-04 A Small and Slim Printed Yagi Antenna for Mobile Applications
- E3-05 Compact Diversity Antenna with T Shape Stub for Ultra-wideband Applications
- E3-06 Design of a Novel Modified Spiral Antenna for UWB Application
- E3-07 Broadband Circularly Polarized Planar Antenna using Partially Covered Circular Wide-slot and L-probe
- E3-08 Compact Patch Antenna with Folded Patch Feed for Ultrawideband Application
- E3-09 A Novel Tri-band Dual-port Coplanar Waveguide-Fed Slot Loop Antenna for WLAN and WiMAX Applications
- E3-10 Comparison of Patch Antenna Performance using Wideband Planar EBG Structure and Mushroom Type EBG Structure
- E3-11 Miniaturization of Ultra Wideband Planar Antenna using Pairs of Slots in the Radiator and the Ground Plane

F3 Wave Guiding Structures Thursday 08:20-12:40 Room 407 Wen-Quan Che

- F3-01 Ultra-Wideband Transceiver Board with a Single-Ended Down Converter for Sequential Sampling of Radar Echoes
- F3-02 Use of Web-splines for Waveguide of Arbitrary Domain
- F3-03 A Broadband W-band E-plan Waveguide-to-Microstrip Probe Transition

- F3-04 Resistance and Attenuation Formulas of Microstripline Constructed by Inspection and Compared to Results from Different Softwares
 F3-05 Bandwidth Enhancement of Coaxial Line to Post-wall Waveguide Transition using Short-ended Straight Post in 60-GHz Band
 F3-06 Schematic Extraction from Layout of Microwave Multi-layer Circuits
 F3-07 Design High Performance Marchand Balun with Step-Impedance Transmission Lines Compensated Parallel-Coupled Lines
 F3-08 A Frequency-Tunable Impedance Matching Network Based on Coupled Inductors for RF Power Amplifiers
 F3-09 Ka Band LTCC Narrowband Cavity Filters with Dual Transmission Zeros
 F3-10 Ka-band Waveguide to Microstrip Transition using Probe Structure
 F3-11 A Innovative Waveguide feeding High-power Vivaldi Antenna

G3 Handset Antennas Thursday 08:20-12:40 Room 408 Hou Zhang

- G3-01 A Novel Bandwidth Enhancement Approach for Internal Multi-Band Handset Antennas
 G3-02 Compact Diversity Antenna Array for Mobile Terminals of MIMO System
 G3-03 A Small Size Antenna for DVB-H Application
 G3-04 Miniaturization of Microstrip Line Monopole Antenna for Wristband
 G3-05 Microwave Wideband Characteristics of Perpendicular Dipole Antennas with Phase Shift Lines
 G3-06 A Dual Band Radial Stub Antenna with Tapered Radial Slot on Backside
 G3-07 Antenna Bandwidth Enhancement by Ferroelectric Tunable Matching Network
 G3-08 Planar Inverted F-Antenna with Suppressed Harmonic
 G3-09 Dual Band Dielectric Resonator Antenna for GPS and WLAN Applications
 G3-10 A Dual-Band Unidirectional Coplanar Antenna for 2.4/5-GHz Wireless Applications
 G3-11 Low Correlation Antenna Design For Diversity Handset Applications
 G3-12 Circularly-Polarized Dual-Slot Antenna for Dualband Applications

H3 Imaging Techniques Thursday 08:20-12:40 Room 409 Yoshio Nikawa

- H3-01 The Efficient Technique for Extracting Two-dimensional SCs of a Target using the SSOC and the MSSP
 H3-02 Monostatic Microwave Imaging of Conductor Cylinder Based on Time-Domain Finite Element
 H3-03 Three-Mode Coupling in an Optically Excited Doubly Periodic Structures
 H3-04 On the Analysis of Field-to-Line Coupling through Apertures Based on Electromagnetic Topology
 H3-05 Time-Frequency-Based Millimeter ISAR Image Formation
 H3-06 A Novel 0.2THz Imaging System
 H3-07 Multi Focus Millimeter-wave Imaging Radar using Inline Tx/Rx Printed Antennas
 H3-08 Autofocusing Imaging through the Unknown Building Walls
 H3-09 Novel Algorithm for Real Time Imaging of Objects in a Half-space with Unknown Characteristics
 H3-10 Subwavelength-resolution Imaging Device Based on Frequency Scanning
 H3-11 Studies on Electromagnetic Coupling Characteristics for Apertures on Metallic Cylinders
 H3-12 Microwave Diagnosis using MRI

J3 Left-Hand Materials Thursday 08:20-12:40 Room 410 Atsushi Sanada

- J3-01 Design of Time Delay Lines with Periodic Microstrip Line and Composite Right/Left-handed Transmission Line
 J3-02 Miniaturized Left-Handed CPW Bandpass Filter using Split Ring Resonator
 J3-03 Scattering by Two Concentric Uniaxial Anisotropic Spheres
 J3-04 Scattering Characteristics of Left-handed Grating under Plane Wave Oblique Incidence and its Application in Complete Polarization Conversion
 J3-05 A Novel Miniaturized Dual-Mode Zeroth-Order Ring Bandpass Filter with Only One Left-Handed Unit
 J3-06 Comparison of Various Ferrite-Loaded CRLH Leaky-Wave Antenna Structures
 J3-07 Electromagnetic Field of a Vertical Electric Dipole in a Negative-index Media Coating a Perfect Conductor
 J3-08 Thin Slit Diffraction in Conventional and Dual Composite Right/left-handed Transmission Line Metamaterials
 J3-09 Observation of Near Field Distributions along a Nonreciprocal Phase-Shift Composite Right/Left Handed Transmission Line
 J3-10 Right/Left-Handed Transmission Line with Variable Phase Constant Composed of Cutoff Waveguide with Dielectric Stubs
 J3-11 Frequency Doubler and Short Pulse Generator Based on Nonlinear Composite Right/left-handed Transmission Line

A4 APMC Prize Competition Thursday 13:40-18:00 Room 401 Tapan K. Sarkar

- A4-01 Design of Crossed-SIW Directional Couplers with Different Angles
 A4-02 A Compact Spatial UWB Power Divider with 1 to 4 Ways
 A4-03 Wide Band Uniplanar 180° Out-of-phase Power Divider
 A4-04 An Analytical Three Dimensional Correlation Model for Array with Antennas Having Arbitrarily Oriented Directions
 A4-05 A Novel Planar Spiral EBG Structure with Improved Compact Characteristics
 A4-06 A New, Compact, Low-Loss, Microstrip Filter Design for Tri-band Applications
 A4-07 Broadband Parallel Stubs Phase Shifter using Defected Ground Structure
 A4-08 Miniaturized 7/6-wavelength Rat Race Coupler with Microstrip-to-CPW Broadside-Coupled Structure and Stepped-Impedance Sections
 A4-09 A Compact Dual-band UWB Filter Based on the Parallel Line Structure with the Slot-line
 A4-10 A Novel Broadband 90° Phase Shifter
 A4-11 Dual Band Bandpass Filter with Individual Tuning of Band Pass Frequencies
 A4-12 Novel "Via-Less" UWB Microwave Filter Utilizing Quarter-wavelength Stubs with Distributed Capacitors
 A4-13 A Novel Dual-Band Wilkinson Power Divider using Branch-line
 A4-14 Compact Triple-band/Quad mode Front-End Module for US-CDMA Handset Applications
 A4-15 A Novel Technique for Enhancing Power Handling Capability in Rectangular Waveguide Dual-Mode BPFs

- A4-16 Architecture and Implementation of Planar 4 x 4 Ku-Band Nolen Matrix using SIW Technology
- A4-17 Investigation of Terahertz (THz) Electromagnetic Band Gap Structures
- A4-18 Electrical Prism: a High Quality Factor Filter for mm Wave and Terahertz Frequencies
- A4-19 A Miniaturized RF Front-end Architecture for Dual-band Transceivers
- A4-20 Varactor-Tuned Multi-Band Six-Port Front-End for Wireless Applications
- A4-21 High-Q Continuously Tunable Zipping Varactors with Large Tuning Range
- A4-22 A 2-GHz Band Experiment on Efficiency Enhancement of a GaN Power Amplifier using 2nd Harmonic Injection
- A4-23 Design of A New K-band Push-Push VCO using GaAs MESFET Varactor
- A4-24 A Triple-Fold Frequency Push-Push Oscillator using DGS Resonator and Composite Right/Left-Handed Transmission Lines
- A4-25 Design of Low Phase Noise VCO using Complimentary Split-ring Resonator
- A4-26 High-Efficiency Power Amplifier using In/Output Matching Network Based on Novel Harmonic Control Circuit
- A4-27 Power Amplifier Integrated with Wide-Slot Planar Antennas for Ultra Wideband Applications
- A4-28 250W S-band 4H-SiC MESFET
- A4-29 60 GHz Bandpass Filters with Small and Large Bandwidths using Thin Film Coupled Microstrip in 0.18- μ m CMOS
- A4-30 A High-Efficiency Class-F GaN HEMT Power Amplifier with a Diode Predistortion Linearizer
- A4-31 Low Noise BiCMOS Receiver for FMCW Radar Positioning Systems
- A4-32 Efficient Multiple Access Scheme for RFID System with Multi-packet Reception
- A4-33 Throughput Measurement on the Wireless LAN
- A4-34 A Smart Bookshelf for library RFID system
- A4-35 A Simple and Efficient Weak Form of the Well-Conditioned Electric-Field Integral Equation
- A4-36 A Modified 2D ESPRIT Method for Scattering Centers measurements
- A4-37 Modeling Lorentz Dispersive Media in FDTD using the Exponential Time Differencing Method
- A4-38 Electromagnetic Modelling and Optimization of Packaged Photodetector Modules for 100 Gbit/s Applications
- A4-39 Range of Validity and Accuracy of the Hybrid GO-PO Method for the Analysis of Reduced-Size Lens Antennas: Benchmarking with BoR – FDTD
- A4-40 Subgridding Capabilities of the Wavelet-transformed FDTD Scheme
- A4-41 The Design and Realization of Uniplanar CPW fed PICA Slot Antennas
- A4-42 Revisiting the Design of Vertically Polarized Slotted Waveguide Array Antenna
- A4-43 Polarization Agility in Annular Waveguide Slot Antenna Arrays
- A4-44 Design and Performance of Electrically Small Planar Antennas with Matching Circuit at 2.4GHz Band
- A4-45 Characteristics of J-Shaped Monopole Antenna Array with Match-ing Circuit at UHF Band
- A4-46 Composite Right/left-handed Waveguide Beam-steering Leaky-wave Antennas using a Cut-off Waveguide and Short-ended Stubs
- A4-47 MIC-fed L-Shaped Vertical Strip Line Primary Radiator for Planar Antennas at 60 GHz
- A4-48 A Triangular Microstrip Patch Antenna for Multi-band Application
- A4-49 Compact Rectangular Microstrip Patch Antenna for Dual Band Application
- A4-50 New Excited Mechanism on Planar Inverted-L Antenna for Mobile Handsets
- A4-51 Uniplanar Two-dimensional Multibeam Antenna Based on the Multimode Beamforming Network
- A4-52 Effects of Electrically Large Radome On Pyramidal Horn
- A4-53 An Efficient Hybrid KA-MoM Method for Scattering from Objects above a Rough Surface
- A4-54 Study on the Jamming to Synthetic Aperture Radar
- A4-55 Range Finding for Multi-layered Targets using NRD Guide Pulse Radar System at 60 GHz
- A4-56 An Experimental Investigation of FCC-compliant UWB-IR Pulse Radar
- A4-57 Artificial Surface with Asymmetric Reflection Properties
- A4-58 Application of the TLM Method to Analyze the Effects of Slots on the Shielding Effectiveness of the Valve Halls in HVDC
- A4-59 A MoM Solution for Electromagnetic Scattering by Inhomogeneous Bi-isotropic Bodies of Revolution

B4 Multi-Band Band Pass Filter Thursday 13:40-18:00 Room 403 Zhe-Wang Ma

- B4-01 Ultra-Wideband and Notched Wideband Filters with Grounded Vias in Microstrip Technology
- B4-02 A Miniaturized End-Coupled Tunable Bandpass Filter with Reduced Varactors
- B4-03 A Spurious-Free Tunable Bandpass Filter
- B4-04 Design of Tri-band Bandpass Filter using Assembled Multiband Resonators
- B4-05 Design of Compact Dual-Band Bandpass Filter using $\lambda/4$ Resonators
- B4-06 A Tunable Bandstop filter Design using Parallel Coupled Line Resonator with Varactor
- B4-07 Ultra-Wideband (UWB) Bandpass Filter Composed of Periodically-Installed Metallic Posts in a Rectangular Waveguide
- B4-08 Design of Chip-type Bandpass Filter Fabricated by LTCC
- B4-09 Novel Compact Bandpass Filter with a Triple-Passband response
- B4-10 Synthesis of Tuneable Ring-Based Bandpass Filter
- B4-11 A Novel Dual-Band Bandpass Filter using Microstrip Stub-Loaded Two-Mode Resonators with Source and Load Coupling
- B4-12 A Novel Compact Dual-band Bandpass Filter with a Wide Stopband using Asymmetric SIRs for WLANs

C4 Active Devices and Components Thursday 13:40-18:00 Room 404 Shu-Jun Cai

- C4-01 A New Active Quasi-Circulator with Wideband Performance
- C4-02 An Electro-Thermal Analysis of Lateral Double-Diffused MOSFET (LDMOS) using FEM
- C4-03 Design of RF-DC Conversion Circuit Composed of Chip Devices
- C4-04 Design of Dual Mode Low Loss, High Power PIN diode Phase Shifters
- C4-05 Front end Accordability for Cognitive Multi-radio using a Class E HPA and a Multi-band Antenna

- C4-06 Design of a Compact Photonic Crystal Pulse Position Modulator
- C4-07 Automated Synthesis Procedure of RF Discrete Tuning Differential Capacitance Circuits
- C4-08 Effect of Timing Jitter in Direct Sampling Mixers
- C4-09 SiGe 30GHz Active Inductor Based on Cascode Gyrator
- C4-10 A Dual-Band Current-Reused Low Noise Amplifier for 2.4 and 5.7 GHz Applications
- C4-11 An All-Solid-State Frequency Doubler at 185 GHz
- C4-12 1-bit and Multi-bit Envelope Delta-Sigma Modulators for CDMA Polar Transmitters

D4 CMOS Components Thursday 13:40-18:00 Room 405 Kim-Fung Tsang

- D4-01 A 1-V 900-MHz CMOS Cascaded Even-Harmonic Mixer
- D4-02 Wideband CMOS VCO Design
- D4-03 A 90-nm CMOS 4×10 Gb/s VCSEL Driver using Asymmetric Emphasis Technique for Optical Interconnection
- D4-04 A CMOS Sub-harmonic Passive Mixer having Low Flicker Noise with Back-gate Coupling LC tank Quadrature VCO
- D4-05 A 1-V Low-Voltage 12-GHz VCO in 0.18-um CMOS technology
- D4-06 A Low-cost On-chip Bias-Current-Control SiGe BiCMOS Power Amplifier at 2.4GHz
- D4-07 A CMOS SPDT Switch
- D4-08 Bond-Based Design for MMW CMOS Circuit Optimization
- D4-09 A 4-GHz CMOS Quadrature VCO with 20% Tuning Range
- D4-10 A Design of Temperature-Compensated CMOS Mixer with PTAT biasing Circuit
- D4-11 Capacitance Modeling of 120nm AlGaIn/GaN HEMT for Microwave and High Speed Circuit Applications

E4 Ultra Wide Band Components Thursday 13:40-18:00 Room 406 Lei Zhu

- E4-01 Ultra-Wideband Power Dividers with Good Isolation and Sharp Roll-off Skirt
- E4-02 Miniature Coupled Resonator UWB Filter using a Multilayer Structure on Liquid Crystal Polymer
- E4-03 Design of UWB Antenna with Parasitic Elements for Multiband Rejection
- E4-04 Miniaturized Filters and Diplexers for Wireless Broadband Communication Systems
- E4-05 Ultra-Wideband (UWB) Bandpass Filter with Improved Wide Stopband Characters using Defected Ground Structures
- E4-06 Compact Ultra-Wideband Bandpass Filter using Broadside-coupled Microstrip/Coplanar Waveguide Composition Structure
- E4-07 Synthesis of Ultra-Wideband Bandpass Filter Prototype with Multi-stage SIRs and Short-Circuited Stubs Loaded at Ports
- E4-08 An Experimental Study on UWB BPF Loaded with Dielectric Rods
- E4-09 An Efficient Technique for UWB PTMA Miniaturization
- E4-10 A Microstrip UWB Bandpass Filter using a Stub-Loaded Dual-Mode Ring Resonator and a Step Impedance Two-Mode Resonator
- E4-11 Band-Notched UWB Bandpass Filter Design using Tri-Section SIR

F4 Computational Techniques Thursday 13:40-18:00 Room 407 Jian-Ming Jin & Cai-Cheng Lu

- F4-01 Finite Element Electromagnetic Simulation for High-Frequency/High-Speed Circuits (Invited paper)
- F4-02 A Sophisticated Parallel MLFMA for Scattering by Extremely Large Targets (Invited paper)
- F4-03 A Two-Dimensional Smoothed Particle Time-Domain Method (Invited paper)
- F4-04 Fast PML-based Series Expansions for the Green's Functions of Multilayered Media: Efficient Calculation of the Leaky Modes (Invited paper)
- F4-05 An H2-Matrix-Based Integral-Equation Solver of Linear Complexity for Large-Scale Electromagnetic Analysis (Invited paper)
- F4-06 Scattering from Rough Surfaces at Low-grazing Angles: Rigorous Solution for Local Perturbation of a Plane Interface (Invited paper)
- F4-07 A Fully Scalable, Asynchronous Parallel MLFMA (Invited paper)
- F4-08 Numerical Inversion of the Laplace Transform for Transient EM Scattering Problems (Invited paper)
- F4-09 An Accurate and Robust Approach for Evaluating VIE Impedance Matrix Elements using SWG Basis Functions (Invited paper)
- F4-10 Nonlinear Modeling of GaN Doherty Power Amplifiers using Radial-Basis Function Neural Networks
- F4-11 A New Ray Tracing Acceleration Technique Based on Decomposition of Wavefronts

G4 Low-Profile Antennas Thursday 13:40-18:00 Room 408 Kenneth Kin-Fai Tong

- G4-01 Wideband Low Permittivity Dielectric Resonator Antennas for Millimeter-Wave Frequency Applications
- G4-02 An Electrically Small Monopole Antenna using Four L-slots
- G4-03 A Modified T-Shaped Probe-Fed Circularly Polarized Microstrip Patch Antenna
- G4-04 Dielectric Resonator Antenna Array at 2.4 GHz
- G4-05 A Polarization Switchable Microstrip Patch Antenna with A Circular Slot
- G4-06 Ferrite Sheet Loaded PIFA for Critical Coupling
- G4-07 Miniaturized Half-Bowtie Printed Dipole Antenna with an Integrated Balun
- G4-08 A HIGP Printed Antenna at 2.4-GHz Operation
- G4-09 Ultra Wide Band Antenna Design
- G4-10 Center-Fed High-Gain Planar Phase-Reversal Antenna Array with Enhanced Radiation Bandwidth for Millimeter Waves
- G4-11 Shorted Bowtie Patch fed by L-probes
- G4-12 A low-profile Dual-Band Folded Antenna Design for Mobile Applications

H4 Frequency Domain Techniques Thursday 13:40-18:00 Room 409 Chi-Yang Chang

- H4-01 A New Calculation Method of the Receiving Mutual Impedance for Linear Antenna Array
- H4-02 Web-spline Solution of Axisymmetric Cylindrical Problems
- H4-03 CPS Quarter Wavelength Interdigital Bandpass Filter
- H4-04 TE Scattering from Mushroom-type EBG Structures in Parallel Plate Waveguide

- H4-05 Investigation and Design of Broadband CPW-to-microstrip Transition
H4-06 On the Generation of Synthetic Functions using in Electromagnetic Scattering Problems
H4-07 Numerical Analysis of Asymmetric Differential Inductors
H4-08 A CAD Approach Based on Artificial Neural Networks for Conductor-backed Edge Coupled Coplanar Waveguides
H4-09 An Array Antenna Processing Algorithm for Collaborative MIMO System
H4-10 Parametric Geometric Modeling using Piecewise Interpolation Functions for Solutions of Electromagnetic Integral Equations
H4-11 Simplified CAD Model for Accurate Estimation of the Resonant Frequency of Edge Coupled Split Ring Resonators

J4 Measurement Thursday 13:40-18:00 Room 410 Duncan Leung-Ching Fung

- J4-01 Non-Line-of-Sight Propagation Measurements at 60GHz for Millimeter-waves WPAN
J4-02 Surveillance of the Spectral Purity in Overmoded Waveguides
J4-03 Sensitivity Improved Photonic Instantaneous Frequency Measurement Receiver
J4-04 Measurement of the Permittivity and Conductivity of Medium Loss Sample using Cavity Perturbation Method
J4-05 Analysis of Microstrip Resonator Based Method to Measure Complex Permittivity & Adulteration in Gasoline
J4-06 Low-Phase-Noise, Phase-Locked Tunable Millimeter-wave Signal Source for Calibration of W-band Low-Noise Astronomical Heterodyne Receivers
J4-07 Low Temperature Microwave Characterisation of GreenTapes using Split Post Dielectric Resonator
J4-08 Wide-Band Measurements for Frequency Dependence of Complex Permittivity of a Dielectric Rod using Multi-mode TM_{0m0} Cavities
J4-09 Conducted Susceptibility Diagnosis of Vehicle Electronic Circuit using Mixed-mode S-parameter Method
J4-10 Two-dimensional Electromagnetic Cloaks with Polygon Geometries
J4-11 A Dual Microstrip Resonator for Liquid Dielectric Constant Measurement
J4-12 Measurement of the Double Directional Propagation Characteristics for Millimeter Wave WPAN

A5 Interactive Presentation I Friday 08:20-12:40 Room 401 Steven Shing-Lung Yang

- A5-01 Wireless Communications using Distributed Antenna Networks, Part A: Design Assumptions
A5-02 Wireless Communications using Distributed Antenna Networks-Part B: Distributed Network Design for In-building and Tunnel Coverage
A5-03 ZigBee Automatic Meter Reading System – Beeline of Metering
A5-04 ZigBee WiMAX Nursery System for Patient Monitoring
A5-05 Exhibition Security and Safety System using RFID Technology and a modified Particle Swarm Optimization Algorithm
A5-06 Design and Implementation of a Two Layer RFID Network
A5-07 Integration of Video Surveillance and RFID for Remote Scene Monitoring
A5-08 Energy Management with ZigBee Sensor Network
A5-09 DIY ZigBee Light Switch Systems
A5-10 Bending Dipole Design of Passive UHF RFID Tag Antenna for CD / DVD Discs
A5-11 Algorithms for WiMAX Scheduling
A5-12 Novel Design of Open-slot Broadband Antenna with Dual Band-rejected Characteristics for WiMAX Applications
A5-13 Design of HAC Compatible Mobile Phone with LC Band-Stop Filter Embedded in PWB
A5-14 Prediction of Passive Intermodulation Power Level at Microwave Frequencies
A5-15 Circularly-Polarized Microstrip Array with Low-Sidelobe for RFID Application
A5-16 Mechanical Adjustable Phase Shifters for WiMAX BTS Antenna
A5-17 High Isolation with Etched Slot for Compact Packed Antennas of UHF RFID System
A5-18 Performance Analysis of Transmit Antenna Selection with Maximal-Ratio Combining in MIMO Nakagami Fading Channels
A5-19 Foam Based Light Weight Cavity-Backed Slot Antenna for Unidirectional Wireless System Applications
A5-20 Efficient Ray Tracing for Path Loss Prediction in Urban Canyon Environment
A5-21 The Gap Filler Technology for Mobile Satellite System
A5-22 Analysis of Inter-Modulation Products in Nonlinear OFDM Transmitter Systems
A5-23 Collision Resolution Algorithms for RFID Applications
A5-24 Impact of the Dispersion-Induced Power Fading on the Fiber Transmission Performance of OFDM-UWB Radio Signals
A5-25 Design of an UWB Antenna and Impact of the Resulting Pulse Shape on the Capacity of the Communication
A5-26 Adaptive Pilot Distribution for OFDM Systems in Time-Variant Channels
A5-27 Orthogonal Frequency Division Multiplexing (OFDM)
A5-28 Investigation into MIMO Channel Estimation Performance under a Double-Bounce Channel Model
A5-29 Investigations of Symbol Synchronization Implementation for 2x2 MIMO System using FPGA
A5-30 Dynamic Resource Allocation with Inter-cell Interference Coordination for 3GPP LTE
A5-31 An Efficient Method in the Optimization of the Spectrum for Broadcasting Enclaves of Digital TV Channels
A5-32 Novel Passive Antenna for Microwave RFID
A5-33 Design of a 180° Phase Shifter with Low Phase Deviation Characteristics
A5-34 Improved V-band Four-way Power Divider/Combiner
A5-35 A Compact Millimeter-Wave Transceiver with High Power
A5-36 A New Impedance Match Method in Serial Chireix Combiner
A5-37 A 2.45 GHz Rectifying Circuit with Enhanced Range of Input Power and Load
A5-38 A Full Band Millimeter Wave Power Module using Microstrip to Waveguide Probe 3dB Power Splitter/Combiner
A5-39 Suspended Substrate Stripline (SSS) Transition for High Q LO Injected Finline Mixer
A5-40 Over 150% Bandwidth Ratio Balanced Cascode Power Amplifier with the Optimum Load Impedances
A5-41 Very Compact LTCC Transceiver for Bluetooth Systems
A5-42 A Fully integrated RSSI with Wide Dynamic Range, Low Power Consumption in DVB-H

- A5-43 Three-stage Doherty Amplifier for WiMAX Application
- A5-44 Spectrum Regrowth Reduction in Power Amplifiers using Digital Baseband Signal Injection
- A5-45 A Fully-Integrated Arbitrary Waveform Generator for Analog Matched Filter
- A5-46 Gate Material Engineered-trapezoidal Recessed Channel MOSFET (GME-TRC) for Ultra Large Scale Integration (ULSI)
- A5-47 60 GHz System-On-Package Antenna Array with Parasitic Microstrip Antenna Single Element
- A5-48 Increased Throughput using Lossy Material Slabs in a Stacked Microstrip Connector for 10Gbps Baseband Signaling
- A5-49 Modelling of Pulse Propagation in Optically Controlled MIS Microstrip Line
- A5-50 Performance Modeling and Estimation along an MPSOC Flow
- A5-51 Investigation of Light Propagation in H-shaped Plasmonic Coupler using Volume Integral Equation
- A5-52 Design of a Millimeter Wave Receiver for Antenna Measurement
- A5-53 A Low Cost and High Dynamic Range Receiver for Passive Intermodulation Measurement
- A5-54 Corrosion Reliability Study of Indium Tin Oxide (ITO) for Chip-on-Glass (COG)
- A5-55 Print Parallel Coupling Wideband Filters on Al₂O₃ Ceramic Substrate
- A5-56 Parallel-Plate Noise Isolation using a Macro-via Photonic Crystal Structure in Advanced Package
- A5-57 Effect of Connectivity on the Existence of Complete Band Gaps in Two-dimensional Piezoelectric Phononic Crystals
- A5-58 Measurement of Terahertz Refractive Index of Metals
- A5-59 Influence of Coupling between Cavity and Transmission Line on the Measurement of Complex Permittivity by Resonant Cavity Perturbation Method
- A5-60 Investigation on the Shielding Effectiveness Properties of Electrically Conductive Textiles

B5 Band Gap Technologies Friday 08:20-12:40 Room 403 Jong-Chul Lee

- B5-01 Structural Investigation of One-dimensional Frequency
- B5-02 Design of a Compact Broad Band-pass Filter using Parallel Coupled Line Structure
- B5-03 A Novel Microstrip Coupler with EBG Structures
- B5-04 Bandgap Characteristics of Coupled-Line Section with Periodic Corrugation and its Application to Parallel-Coupled Microstrip Filter Design with an Extended Upper Stopband
- B5-05 A Novel EBG Structure for Microstrip Lines and its Application for Microwave Filter
- B5-06 Design of a Wide-band, In-Phase, Highly Reflecting Surface for Application in a Low-Profile EBG-Resonator Antenna
- B5-07 AlN SAW Structures for GHz Applications
- B5-08 Synthesis of Negative Group Delay Time Circuit
- B5-09 Novel Miniaturized Branch-Line Coupler using Bond-wire Slow-wave Structure

C5 Voltage-Control Oscillators Friday 08:20-12:40 Room 404 Wing Shing Chan

- C5-01 A 5.25-GHz Ultra Low Power Voltage-Controlled Oscillator using Transformer Feedback
- C5-02 Design of High Performance and Wide-band VCO with Transformer Feedback
- C5-03 On-Chip Interference Suppression Effect of S-Shape Inductor VCO
- C5-04 Back-gate Coupled Quadrature LC VCO with Multi-band Tuning & Low Power Consumption
- C5-05 An Application in Low-noise VCO Design using Figure-of-Merit Method
- C5-06 A Novel On-Chip Voltage-Controlled Two-State Inductor for Reconfigurable RF Circuit Designs
- C5-07 Design of LC-Digitally Controlled Oscillator with Wide Tuning Range in 0.18 μ m TSMC CMOS Technology
- C5-08 Low Phase Noise VCO using Output Matching Network Based on Novel Harmonic Control Circuit
- C5-09 Low Phase Noise VCO using Microstrip Square Open Loop Split Ring Resonator
- C5-10 Transformer-Coupled Voltage Controlled Oscillator
- C5-11 A Low Power Low Phase Noise Wide Switched Tuned Band LC VCO for S Band Applications

D5 HEMT Technologies Friday 08:20-12:40 Room 405 Edwin Yue-Pun Pun

- D5-01 Scaleable Two-Current Low-Noise PHEMT Model that Predicts IP₃
- D5-02 A Wideband GaN HEMT Distributed Power Amplifier for WiMAX Applications
- D5-03 A 2.14GHz High Efficiency GaAs pHEMT Quasi Class E Transmission-Line Power Amplifier
- D5-04 0.5 μ m GaAs PHEMT Medium Power Amplifier Design using Simple RC Feedback Amplifier for Wireless LAN Applications
- D5-05 Quarter-Micron Optical Gate 6" Power pHEMT Technology
- D5-06 A 3.7GHz GaN HEMT Doherty Power Amplifier using Digital Predistortion Linearization
- D5-07 High Power X-band Internally-matched AlGaIn/GaN HEMT
- D5-08 A Low-power Subharmonic Injection-Locked Oscillator using E/D-mode GaAs PHEMTs
- D5-09 Evaluation of RF and Logic Performance for 40 nm InAs/InGaAs Composite Channel HEMTs for high-speed and low-voltage applications

E5 Medical Effects Friday 08:20-12:40 Room 406 Wen-Quan Che

- E5-01 RFM model and Uncertainty Analysis of the Complex Permittivity Measurement of Biological Tissues using PMCT Probes within a Wide Microwave Frequency Bands
- E5-02 Quantitative Comparison of Phase Unwrapping Algorithms for SAR Interferometry
- E5-03 Evaluation of Human Exposure to Electromagnetic Fields from RFID Device at 13.56 MHz
- E5-04 The Research on Biological Effects of Mobile Phone Radiation to Human Body
- E5-05 Propagation Studies of UWB Transmission on Human Arm
- E5-06 Chitosan Biopolymer for Microwave Tomography Applications
- E5-07 Assessment of Radiated Immunity of C-band Satellite TV Receiving Station in Hong Kong Local Environment Due to UWB Interference
- E5-08 Study of using Fractional Phantom Head Model on SAR Evaluation of External Helical Mobile Antenna
- E5-09 A Novel Method for Microwave Breast Cancer Detection

F5	FDTD Schemes	Friday	08:20-12:40	Room 407	Shi-Quan Zhang
F5-01	PLRC-FDTD Analysis of a Magnetized Plasma Antenna				
F5-02	Comparison study of MRTD and FDTD Methods for Analysis of 2-D Resonant structure				
F5-03	A New Unconditionally-Stable FDTD Method with High-Order Accuracy and Low anisotropy				
F5-04	Efficient Unconditionally Stable FDTD Method for Solving Wave Equation				
F5-05	Analysis of Even- and Odd-mode Voltages on Velocity Compensated CPW Bends by FDTD Method				
F5-06	Large Scale ADI-FDTD Parallel Computations				
F5-07	Energy-based Stability Criterion for the Finite-Difference Time-Domain Method				
F5-08	Simplification of Dispersion and Stability Analysis for ADI-FDTD Method in Lossy Media				
F5-09	Unconditionally Stable ADI-FDTD Formulations in Nonorthogonal Coordinates				
G5	Arrays	Friday	08:20-12:40	Room 408	Wei-Xing Sheng
G5-01	A Very Low Profile and High Efficiency Antenna Array for WLAN at S-Band				
G5-02	Design of Array Antenna using CRLH TL Power Divider Supporting Infinite Wavelength				
G5-03	Robust Partially Adaptive Array Processing Based on Generalized Sidelobe Canceller				
G5-04	Improved Performance from a Double Ridge Waveguide Array				
G5-05	A Unit Cell Based Low Side Lobe Level Design for Series-fed Arrays				
G5-06	Symmetry Antenna Patterns of PAAs by Sharing the Same Phase Shifters of BFN				
G5-07	A Millimeter-wave 4×4 Conical Conformal and Dual-band Microstrip Array				
G5-08	Circularly Polarized Ultra-Wideband Array using Sequential Rotation				
G5-09	Dual Band Microstrip Array Antenna Radiation Characteristics' Enhancement via Novel Band Rejection Technique using EBG Structures				
G5-10	High Gain Antenna Array for IEEE802.11a Access Point				
G5-11	The Research of Ka Band Broadband Low Side-lobe Microstrip Antenna Array				
H5	Radars	Friday	08:20-12:40	Room 409	Peter Sai-Wing Leung
H5-01	A Radar Target Signature Based on Resonance and Dual Polarization Features				
H5-02	A Fast-Speed Pulse Detector Based on Si-Schottky Diode				
H5-03	Radar Cross-section of a Novel RFID Tag at 869 MHz				
H5-04	Measurement-Based Nonlinear Simulation of Mixer Behavior for 77 GHz Radar System				
H5-05	The RCS of Wire-type Scattering Structures				
H5-06	Radar Altimeter Echo Simulation Based on PO Method				
H5-07	The Design of Array Configuration for 2-D Synthetic Aperture Radiometers using Multiobjective Optimization				
H5-08	A Circuit Implementation for Time-Reversal of Short Impulses				
H5-09	Tomography of well Localized Ionospheric Irregularities (LII) based on P-band Spaceborne SAR				
H5-10	ISAR Imaging of Multiple Moving Targets Based on RSPWVD-Hough Transform				
H5-11	Characterization of Microwave Anisotropic Thin Radar Absorber using Artificial Magnetic Ground Plane				
H5-12	Reducing Nonlinearity for Impulse Radar Ultra Wideband over Fiber using Analogue Feedback linearization				
J5	Grounding & Manufacturing Techniques	Friday	08:20-12:40	Room 410	Yasushiro Sugimoto
J5-01	Inverted Defected Ground Structure for Microstrip Line Filters Reducing Packaging Complexity				
J5-02	Triangle-shaped Defected Ground Structure for Coplanar Waveguide				
J5-03	Ultra-Wide Stopband Low-Pass Filter using Multi-Mode Coupled Defected Ground Structures				
J5-04	Shape Optimization Design and Ceramic Stereo-Lithography Process Dedicated to Microwave Component Manufacturing				
J5-05	Design of Mesh Pitch and Mesh Size for Meshed Ground Plane for Signal Integrity				
J5-06	The Influence of Dummy Fills on an On-chip Spiral Inductor and their Optimized Placement Scheme				
J5-07	A Novel Reconfigurable DGS Cell for Multi-Stopband Filter on CPW Technology				
J5-08	Variation of the De-embedded via Discontinuity due to the Resonance of Power/ground Planes				
J5-09	A Novel Analysis of PPM with High Accurate Magnetic Field				
J5-10	Analysis of Electrode Speed Effect on Discharge Parameters Applying Bernoulli's Principle				
A6	Interactive Presentation II	Friday	13:40-18:00	Room 401	Bin Li
A6-01	A Compact Wideband PIFA				
A6-02	Particle Swarm Optimisation of Wideband Patch Antennas				
A6-03	Miniature Broadband Wire Antenna				
A6-04	A Novel Omnidirectional High-Gain Microstrip Antenna Array				
A6-05	Reconfigurable Top Loaded Monopole Antenna with Wideband Tuning				
A6-06	A Very Wideband Unidirectional Antenna Element				
A6-07	Slot Antennas for UWB Applications				
A6-08	UWB Printed Monopole Antenna with Radiation-Suppression in 5-GHz ISM Band				
A6-09	Printed Wide-Slot Planar Antennas for Ultra Wideband Applications				
A6-10	Quasi- Periodic Structure Application in Fabry-Perot Resonator Printed Antenna				
A6-11	Small CPW-Fed Microstrip Monopole Antenna for WLAN Applications				
A6-12	A Novel Compact Single-feed Dual-band Circular Polarization Antenna				
A6-13	Triple-Band Cavity-Backed Z-Like Slot Antenna				
A6-14	Study on Feed Configurations of Wideband Slot Antenna				
A6-15	Mutual Coupling Reduction Between Two Microstrip Patch Antennas using the Parasitic Elements				

- A6-16 Quadrature-Fed Wideband Circularly Polarized Dielectric Resonator Antenna
- A6-17 Axial Ratio Analysis of a Multiple-Feed Microstrip Antenna
- A6-18 Penta-band Folded Antenna Design in Mobile Phone
- A6-19 Design of Microstrip Antenna with Broad Beamwidth
- A6-20 A Stacked Dual-band Equilateral-Triangular Circularly Polarized Microstrip Antenna
- A6-21 Gain Enhancement of Tapered Slot-line Antenna with Directive Grating
- A6-22 Investigation of Direction-of-Arrival Estimation using Uniform Linear Arrays with Different Antenna Element Separations and Array Apertures
- A6-23 A CRLH CPW Leaky-Wave Antenna with Reduced Beam Squinting
- A6-24 Design of Square and Circular Dual Band Microstrip Antenna at 2.4 GHz and 5.2 GHz
- A6-25 A Meandered Rectangular Microstrip Antenna for Dual-Frequency Operation
- A6-26 Circular Polarization Array Antenna For Point To Point Communication
- A6-27 Bandwidth Analysis and Optimization Technique of the Monopole Disc Antenna for Cellular Application
- A6-28 Multiband Microstrip Antenna Array for WiMAX Application
- A6-29 Design of Gap-fed Antenna Adjacent to Ground of a Mobile Handset
- A6-30 A Compact Polarization Diversity Antenna for UWB Systems
- A6-31 A Compact Broadband Capacitively-Loaded Antenna for UHF Application
- A6-32 Study on Dual-Band and Wide-Band Orthogonal Folded Dipoles
- A6-33 Behavior of Luneberg Lens Under incidence of a Plane Electromagnetic Wave
- A6-34 Efficient Rectenna Design for Emerging Applications
- A6-35 A Compact Broadband Spiral Antenna
- A6-36 Widely Tunable Stacked Microstrip Antenna using Varactor Diodes
- A6-37 Reduced-Volume Horn Antennas with Integrated High-Impedance Electromagnetic Surfaces
- A6-38 Characteristics and Usage of the Ram's Horn Antenna
- A6-39 Complex Filtering for Generation of SSB and VSB Signals
- A6-40 New Patch Resonator Bandpass Filter with Wideband and Tunable Operation
- A6-41 Novel Wilkinson Power Divider with Uniform Impedance Line
- A6-42 A New Multilayered Common-Mode Filter Based on LTCC
- A6-43 A Simple Microstrip-to-CPS Transition using Elliptical Transmission Line as an Ultra-broadband Balun
- A6-44 Synthesis of Symmetrical Even-Order Chebyshev Filters
- A6-45 Microstrip Cross-Coupled Interdigital Hairpin Bandpass Filter
- A6-46 Design of A Coplanar Waveguide Dual-band Filter with Spiraled Coupled-Lines
- A6-47 Compact Microstrip Bandpass Filter with Wide Stopband
- A6-48 A Low Insertion Loss 60 GHz Band Pass Filter using Wafer Transfer Technology
- A6-49 Quadrupled-Step Impedance Transmission Lines Compensated Parallel-Coupled Lines
- A6-50 A Compact Square Open-Loop Resonators with Meander Spurlines Feeder
- A6-51 Simple Ultra-Wideband Interdigital Bandpass Filter
- A6-52 Design of a New Compact Broad Band-pass Filter using Z-Transform Technique
- A6-53 A New Design of Impedance Matching Circuit of Laser Diode in high frequency Applications
- A6-54 Sinuous Antenna Feed Network
- A6-55 Triangular Patch UWB Filter with a Band-Notched Characteristics
- A6-56 GEWE-RC MOSFET: High Performance RF Solution to CMOS Technology
- A6-57 DMG AlGaIn/GaN HEMT: A Solution to RF and Wireless Applications for Reduced Distortion Performance
- A6-58 Study of the One-Dimensional Modified Maxwell's Equation to p-wave in Layered Dispersive Media
- A6-59 Scalar and Vectorial Properties of Diffraction-Free Bessel Beams
- A6-60 Localization of Transmitter in Forest Environments using Inverse Diffraction Parabolic Equation
- A6-61 Propagation Environments of Radiowave Information Systems
- A6-62 Research on Scattering and Imaging Simulation from the Object and Randomly Rough Surface
- A6-63 Resonant Transmission of a Class of Sub-wavelength Apertures in Thin Conducting Screen

B6 Filter Design Technologies Friday 13:40-18:00 Room 403 Ping Shum

- B6-01 Multi-tap Microwave Photonic Filter using a Sampled-chirped Fiber Bragg Grating Based Multi-wavelength Erbium-doped Fiber Laser
- B6-02 Design of Sharp Rejection Wide-Stopband Lowpass Filters
- B6-03 A Compact, Ultra-broadband Coplanar-waveguide Bandpass Filter with Good Stopband Rejection
- B6-04 Design Procedure for Quadruple Band Bandpass Microwave Filters
- B6-05 Microwave Filter Research in Universiti Teknologi Malaysia
- B6-06 Design and Tuning of an 8-pole Cross-coupling HTS Microwave Filter
- B6-07 Novel Semi-Lumped Circuit Model of 4 Poles Dual-Mode Quasi-Elliptical Resonator Filter for Wimax Applications
- B6-08 Design of a Broad Band-pass Filter with Harmonic Rejection using the FSCS Technique
- B6-09 Design of Compact Low-pass Filter using Cascaded Arrowhead-DGS and Multilayer-Technique
- B6-10 A New Method to Improve the Rejectband of a 5.6 GHz Bandstop Filter using $\lambda/2$ Open-Loop Ring Microstrip Resonators
- B6-11 Low-loss Band-pass Filter using Bilaterally Metal-loaded Tri-plate Strip Transmission Line at 30 GHz

C6 Front-Ends Friday 13:40-18:00 Room 404 Leung Chiu

- C6-01 Ultra-Wideband Six-port Transmitter and Receiver Pair 3.1-4.8 GHz
- C6-02 Implementation of a Wireless Module for Finger Print by using a Bluetooth technology

- C6-03 A 53 μ W Super-Regenerative Receiver for 2.4GHz Wake-up Application
- C6-04 A TH-PPM UWB-IR Transceiver with Precise Delay Control and Observation of its Multichannel Operations
- C6-05 A Novel Parallel Coupled-Line Microstrip Filter with Inhomogeneous Substrate
- C6-06 Design and Implementation of Spiral-type Marchand Balun using Glass-Based IPD Technology
- C6-07 An Embedded Multilayer LTCC Band-pass Filter Used in Transceiver Module
- C6-08 A Dual-Band Direct Conversion RF Front-End with Single to Differential Converter for DVB-H Applications
- C6-09 A Miniature Ka-band Transceiver with Two Channels
- C6-10 Improved DTH Broadcast Satellite Transponder Performance using Low Delay Filters

D6 HBT and Other Solid State Devices Friday 13:40-18:00 Room 405 Jian-Xin Chen

- D6-01 Periodic Loop Structure for Combining Power FETs
- D6-02 Design of A Substrate Integrated Waveguide Based 1-to-6 Non-Uniform Power Divider
- D6-03 RF Noise Modeling of SiGe HBTs using Four-Port De-embedding Method
- D6-04 Comparative Analysis of InGaP/GaAs HBT Differential Colpitts VCOs
- D6-05 A Switch-Mode Power Amplifier in GaAs Enhancement-mode pHEMT for WiMAX/WLAN Applications
- D6-06 A 29-GHz Low Phase Noise Differential Voltage Controlled Oscillator using 2-um GaAs HBT Process
- D6-07 On-chip Power Combining Method in CMOS Power Amplifier
- D6-08 Influence of Gate Width and Gate Finger towards Noise Figure of p-HEMT
- D6-09 Fabrication of GaAs Gunn Diodes using Trench Method
- D6-10 A Broadband Stacked Power Amplifier using 2-um GaAs HBT Process for C-band Applications

E6 MEMS and Coupling Techniques Friday 13:40-18:00 Room 406 Stepan Lucyszyn & Nishino Tamotsu

- E6-01 Coupled-line RF MEMS Filters for Millimetre-wave Applications (Invited paper)
- E6-02 L-Band Reflection-type RF-MEMS Tunable BPF (Invited paper)
- E6-03 RF MEMS activities at IMETU (Invited paper)
- E6-04 Configuration Design of MEMS Switches in a Digitally Controlled Reflectarray Element
- E6-05 pi-Phase Shifter using Single RF MEMS SPDT Switch
- E6-06 Investigation of Conductor Loss in RF MEMS by a Combined 2D/3D MoL Approach
- E6-07 Simple and Highly Accurate Quasi-Static Model for High Speed MIS Interconnects on Lossy Substrate in RF MEMS and Integrated Circuits
- E6-08 Dependence of Dielectric Charging on Film Thickness and Deposition Conditions
- E6-09 Pressure Sensing Approach Based On Electromagnetic Transduction Principle
- E6-10 Terahertz Generation in the Carbon Nanotube Antenna
- E6-11 Tunable Bandpass Filter using RF MEMS Variable Capacitors

F6 Time Domain Techniques Iteration Methods Friday 13:40-18:00 Room 407 Hao-Gang Wang

- F6-01 Several Novel Time-Domain Galerkin's Methods Based on Different Temporal Basis Functions
- F6-02 Convergence Analysis of Runge-Kutta Multiresolution Time-domain Scheme
- F6-03 Analytical Evaluation of Retarded-Time Potential Integrals in TDIE
- F6-04 An Improved Method of Plane-Wave Time-Domain Algorithm
- F6-05 An Efficient Method of Time-domain Ray Tracing Based on The Deterministic Splitting Method of Ray Tubes
- F6-06 Programmable Graphics Processing Units Accelerated SBR Method for Analyzing the Scattering of Open Cavities
- F6-07 Application of the GCRO Iterative Algorithm for Analysis of Scattering from 3-D Conducting Structures
- F6-08 A New Iterative Physical Optics Method Based on MFIE for Computing the RCS of Electrically Large Cavities
- F6-09 Time Domain Integral Equation Solvers using Curvilinear RWG Spatial Basis Functions and Quadratic B-Spline Temporal Basis Functions
- F6-10 Coupled Circuit-Electromagnetic Simulation using Time Domain Integral Equation
- F6-11 Adaptive Relaxed Iterative Domain Decomposition Method for Waveguide Problems

G6 Beam Forming Arrays Friday 13:40-18:00 Room 408 Alan Chung

- G6-01 Design of Unit Cells of Double Circular Rings for a Single-Layer Microstrip Reflectarray
- G6-02 On-chip Enhanced Slow Wave CPW for Compact RF Components and MM-wave applications
- G6-03 Reconfigurable Linear Array Antenna with Beam Shaping at 5.8GHz
- G6-04 A Short Microstrip Leaky-Wave Antenna with Rectangular-Notches
- G6-05 Planar UWB Antenna Array with CPW Feeding Network
- G6-06 Parallel Multistage CM Array with Constrained Initialization of Digital Beam Synthesis
- G6-07 A Novel Active Multilayer CP Antenna with Beam Steering Capability
- G6-08 Steerable Antenna for Wireless Routers and Indoor Communications
- G6-09 Lens Antennas with Beam Shaping Capabilities at the Feed Level
- G6-10 A Periodic Microstrip Leaky-Wave Antenna
- G6-11 Dual-Band Single-Layer Microstrip Reflectarray using Multiresonance Double Cross Elements
- G6-12 Advanced Multiple Beam Antenna System Supporting Multiple Satellite Communications Services

H6 FET Technologies Friday 13:40-18:00 Room 409 Kim-Fung Tsang

- H6-01 DC and RF Characteristics of Type II Lineup InAs/AlSb HFETs
- H6-02 Impact of Layout and Technology on the DC and RF Performance of AlGaIn/GaN HFETs
- H6-03 High Tolerance to Gate Misalignment in Graded Channel Double Gate SOI n-MOSFETs: Small Signal parameter Analysis
- H6-04 Temperature Dependence of High Frequency Noise Performance of Deep Submicron NMOSFETs

H6-05	Comparison between Bipolar and NMOS Transistors in Linearization Technique at 5GHz Low Noise Amplifier
H6-06	10W X-band AlGaIn/GaN MMIC
H6-07	D-band Amplifier using Metamorphic HEMT Technology
H6-08	Impact of Body Bias on the High Frequency Performance of a Partially Depleted SOI MOSFET
H6-09	Impact of Laterally Asymmetric Channel and Gate Stack Design on Device Performance of Surrounding Gate MOSFETs : A Modeling and Simulation Study
H6-10	AlGaIn/GaN MISHFET: A Novel Alternative to Power HFET's for High Temperature Microwave Digital and Switching Applications
H6-11	TCAD Performance Investigation of a Novel MOSFET Architecture of Dual Material Gate Insulated Shallow Extension Silicon on Nothing MOSFET for the ULSI-Era

J6	Special Materials	Friday	13:40-18:00	Room 410	Jong-Heon Kim
J6-01	Modal Analysis for TE Volume Modes in Finite-Thickness Slab with Partly Negative Permeability Tensor Components				
J6-02	Near/Far Field Properties of a Metamaterial Cylindrical Cloak Illuminated by an Electric Line Source				
J6-03	Growth Characterization of In _x Ga _{1-x} As/Al _x Ga _{1-x} As Multi-Oxide Layer Vertical-Cavity Surface-Emitting Lasers Structure				
J6-04	Bi ₂ (Zn _{2/3-x} /3Nb _{4/3-2x} /3Ti _x) O ₇ Ceramics – A High Permittivity Microwave Dielectrics for Electronics Application				
J6-05	Application of Bis (Benzimidazol-2-yl) Pyridenato} Zinc Organic Thin Film Parasitic Circuit to Microstrip Patch Antennas				
J6-06	Flexural Strength of Phenol Formaldehyde Composites Post-Cured in Microwaves: Preliminary Results				
J6-07	Realization of MMIC Integratable Antennas with Liquid Foam Dielectrics				
J6-08	A Wideband Bandpass Filter Fabricated on a Lead-Free Piezoelectric Substrate				
J6-09	High Efficiency and High Stability 1kW RF Generator for Plasma Applications				
J6-10	Isotropic Soft-and-Hard Surface				
J6-11	Landau Theory of Ferroelectric Thin Films and its Relevance to RF Filter Design				

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<i>Code</i>	<i>Session</i>	<i>Date</i>	<i>Time</i>	<i>Room</i>	<i>Chair Person</i>
A7	Eminent Scholar Talks	Saturday	08:20-12:40	Rm 2201	Kwok W. Leung
A7-01	Recent Advances in Composite Right/Left-Handed Metamaterial Structures (Speaker: Tatsuo Itoh)				
A7-02	On the Development of Maxwellian Circuits (Speaker: Kenneth K. Mei)				
A7-03	Electromagnetic Band Gap (EBG) Structures in Antenna Engineering: From Fundamentals to Recent Advances (Speaker: Yahya Rahmat-Samii)				
A7-04	Solution of Time Domain Problems without Using Time Variable (Speaker: Tapan K. Sarkar)				
B7	60 GHz Systems	Saturday	08:20-12:40	Rm 2204	Yong-Xin Guo & Yue-Ping Zhang
B7-01	Hybrid 60 GHz and 2.4 GHz WLAN Radio-over-Fiber System for Efficient Broadband Signal Distribution				
B7-02	Design and Integration of 60-GHz Grid Array Antenna in Chip Package				
B7-03	Millimeter Waveguide Fabrication to Reduce Transmission Loss by Diffusion Bonding, Light-Curing Resin or Dielectric Partially-Filling (Invited paper)				
B7-04	A V-band Power Amplifier in 0.13- μ m CMOS (Invited paper)				
B7-05	A CMOS 60GHz Direct Conversion Transmitter with Digital Calibration Control (Invited paper)				
B7-06	Multilayer Photoimageable Thick Film Technology for 60 GHz System-in-Package (Invited paper)				
B7-07	60 GHz Front End Design in SiGe BiCMOS Technology (Invited paper)				
B7-08	Opportunities and Challenges in Optical Generation and Distribution of 60 GHz Wireless Signals (Invited paper)				
B7-09	LTCC SoP Integration of 60 GHz Transmitter and Receiver Radios (Invited paper)				
B7-10	Cylindrical Woodpile Antenna for Millimeter-wave Short Range Giga-Bit Communications (Invited paper)				
B7-11	A Fixed IF 77-GHz FMCW Radar Sensor				
A8	IEEE Distinguished Lecturer Talks	Saturday	14:00-17:50	Room 2201	Peter Sai-Wing Leung
A8-01	Miniaturization of Ultra-Wideband Antennas (Speaker: Zhining Chen, IEEE AP Society)				
A8-02	EMC Design Principles (Speaker: Franz Schlagenhauser, IEEE EMC Society)				
G8	Research on Small and Mobile Antennas	Saturday	13:40-18:00	Room 2204	Wen-Shan Chen & Hua-Ming Chen
G8-01	A Monopole Antenna for GSM/DCS/PCS/UMTS Band Application in Mobile Phones (Invited paper)				
G8-02	Internal Penta-Band Monopole Antenna with a Coupling Feed in a Laptop Computer (Invited paper)				
G8-03	A Hybrid Antenna for UWB Application (Invited paper)				
G8-04	Ceramic Chip Antenna for WWAN Operations (Invited paper)				
G8-05	End-Shorted Printed Monopole Antenna EM Compatible with Nearby Metal Plate for Handheld Applications (Invited paper)				
G8-06	Internal Compact Wideband Metal-Plate Antenna for WLAN/WMAN Dual-Network Operation in a Laptop Computer (Invited paper)				
G8-07	Dual-Shorted Monopole Antenna for Ultra-wideband Applications (Invited paper)				
G8-08	Studies of Wideband Slot Antennas with a Back-Strip				
G8-09	Design of Multi-Band Monopole Antenna for Mobile Phones				
G8-10	Print a Small-Size U-Shape-Modified Broadband Slot Antenna on a Ceramic Substrate				