

Paper no.

SESSIONS AND PAPERS

A01 - Antenna interactions and coupling, Tuesday April 12, 9:00-12:40

- 1569368655 *Estimation of the Radiation Pattern of Finite Arrays of Waveguide-Fed Apertures From the Transmitting Characteristics of an Isolated Element*
- 1569370497 *On the Design of NFC Antennas for Contactless Payment Applications*
- 1569370765 *Diamagnetic Metasurfaces for Patch Antennas Performance Enhancement*
- 1569370889 *On the Impact of Arbitrary Nozzle or Dome Configurations on Dielectric Endfire Antenna Performance in Industrial Radar Level Gauging*
- 1569373729 *MIMO OTA Optical Measurement Device*
- 1569370437 *Mutual Coupling in MIMO Antennas with Transceiver Separation*
- 1569372367 *Using Dirty Signal - How to Use or Not to Use Noise Corrupted Signal -*
- 1569372775 *Pattern Control of UWB Printed Antenna on Large Ground Plane*
- 1569373037 *Bandwidth Limitations and Optimum Low-band LTE MIMO Antenna Placement in Mobile Terminals Using Modal Analysis*
- 1569370113 *Global Technique Analysis for Reconfigurable Reflectarray Antennas*

A02 - Wearable antennas, Tuesday April 12, 16:40-18:20

- 1569365455 *Design and Realization of a Wearable Multi-Frequency RF Energy Harvesting System*
- 1569368097 *Design and Fabrication of a Flexible Minkowski Antenna for VHF Applications*
- 1569369937 *Slotline Structure for on/Off Body Communications At 2.45 GHz*
- 1569370127 *Design and Analysis of UWB Wearable Textile Antenna*
- 1569373785 *On the Use of Soft Surfaces to Reduce Back Radiation in Textile Microstrip Patch Antennas*

A03 - Array antennas I, Tuesday April 12, 16:40-18:20

- 1569369653 *Tolerance Analysis of Linear Antenna Arrays Generating Shaped Beam Patterns*
- 1569369667 *A Passively Switched Dual-Band FSS Slot Array*
- 1569370117 *A Broadband Antenna for GSM1800 and UMTS BTS Applications*
- 1569370423 *An Attractive S-Band Dual-Pol Printed Antenna for Multifunction Phased Array Radars*
- 1569369887 *Analysis of Microstrip Patch Antenna Array Integrated with Mushroom-Like Electromagnetic Band Gap (EBG) for 5.8 GHz*

A04 - MIMO, smart and signal processing antennas I, Tuesday April 12, 16:40-18:20

- 1569370543 *Site-Specific Evaluation of a MIMO Channel Capacity Multiantenna Mobile Terminals in Proximity to a Human Hand*
- 1569370575 *Performance Analysis of a Reconfigurable Antenna System for MIMO Communications*
- 1569373711 *Tri-Band Printed Monopole Antenna for WLAN and WiMAX MIMO Systems*
- 1569373717 *Ambiguity Analysis of Isolation-Based Multiantenna Structures on Mobile Terminal*
- 1569368769 *Internal Handset Antenna Array for LTE/WWAN and LTE MIMO Operations*

A05 - Beamforming, data processing and multiple beam antennas I, Tuesday April 12, 16:40-18:20

- 1569370073 *Array Synthesis with Spatial Power Pattern and Polarization Constraints*
- 1569370939 *Sparse Electromagnetic Imaging*
- 1569370605 *Imaging and Tracking of Targets in Clutter Using Differential Time-Reversal*



1569374025 *Circular Arrays for SDMA Communication Systems*
1569370523 *Design of Dual Beam Planar Meander Line Antenna*

A06 - Automotive antennas, Tuesday April 12, 16:40-18:20

1569370139 *a Novel Dielectric Resonator Antenna with Very High Dielectric Constant*
1569370793 *77GHz Center-Fed Differential Microstrip Antenna Array*
1569374279 *Low-Cost Low-Profile S-Band Transmit / Receive Antenna for Mobile Vehicular Applications*
1569374933 *Design of Multi-Band Compact Antennas for Automotive Communications*
1569369649 *A Low-Profile Antenna Mounted on Metal Plane for Digital Terrestrial Television Reception*

A07 - Mobile communication I, Tuesday April 12, 16:40-18:20

1569370115 *Ground Plane Boosters to Provide Multi-Band Operation*
1569369861 *A Wideband Fabry-Perot Cavity Antenna with Successively Tapered Meandering Loops*
1569369997 *Dual-Polarized Dielectric Resonator Antennas for Base Station Applications*
1569370159 *Handset Antenna Array to Mitigate the Finger Loading Effect*
1569370519 *Over-the-Air Performance Testing of Wireless Terminals by Data Throughput Measurements in Reverberation Chamber*

A08 - Planar and conformal antennas I, Tuesday April 12, 16:40-18:20

1569367957 *Multiple Sources Discrimination by Array Processing*
1569369705 *A Multi-Polarization and Multi-Frequency Single Layered Planar Antenna*
1569370415 *Design of a Dual-Band Rejected UWB Printed Monopole Antenna*
1569370429 *A Low Cross Polarization 5 GHz-Band 3-Stacked Meander-Line Antenna Integrated with a Meander-Line Shape Balun*
1569370917 *Design of an Inverted F Antenna by Using a Transmission Line Model*

A09 - Spectral methods, Tuesday April 12, 16:40-18:20

1569370345 *Mode-Matching Formulation of a Conducting Wedge with a Corrugated Cylindrical Tip*
1569370445 *A Hybrid Projective Method for Analysis of Electromagnetic Scattering From a Doubly Periodic Dielectric Structure*
1569371055 *Dispersion and Attenuation Analysis of Substrate Integrated Waveguides by Driven Eigenproblem Computation*
1569374193 *Rigorous Determination of the Modal Spectrum for Multilayered Structures Through a Simple Closed-Form Approach*
1569370041 *FEM_eigenmode_solver*

A10 - Antennas for remote sensing and radio astronomy, Tuesday April 12, 16:40-18:20

1569368965 *Design, Implementation and Measurements of a Novel Broadband Dual-Polarized Patch Array in Ku Band for SAR Systems*
1569370811 *Periodic Structures to Efficiently Launch HF Surface Waves*
1569369935 *Analysis of RATAN-600 Radio Telescope Antenna Using the MLPO Algorithm*
1569373669 *Performance of a Quad-Ridged Feed in a Wideband Radio Telescope*
1569369587 *A Simultaneous s/Ka Feed System for Remote Sensing Applications*

A11 - New materials, meta-materials, EBG structures I, Wednesday April 13, 9:00-12:40

- 1569370071 *Compact Multi-frequency Metamaterial Inspired Antenna*
- 1569370103 *Analytical Modelling of Amorphous Glass-coated Microwires for Microwave Applications*
- 1569370121 *Analysis of Anomalous Extraordinary Transmission Through Metallic Arrays*
- 1569370143 *Wide Angle Negative Refraction in Fishnet Metamaterials*
- 1569370167 *Stacked Cut-Off Hole Arrays for Lens Antennas At Subterahertz Frequencies*
- 1569370413 *Cylindrical Active Coated Nano Particles Excited by an Electric Line Source*
- 1569371467 *Microstrip Gain Enhancement Using Left Handed Metamaterial Structure*
- 1569372685 *Radiation Efficiency Improvement of Dual Band Antenna Based on a Complementary Rectangular Split Ring Resonator*
- 1569373715 *Comparative Study of the Integral Equation Formulations When Analyzing Left-Handed Materials*
- 1569373931 *Bandwidth Analysis of Lumped-element-based Planar Anisotropic Cloak*

A12 - Array antennas II, Wednesday April 13, 9:00-12:40

- 1569373267 *Experimental Results on a Planar Array of Parasitic Dipoles Fed by Only One Active Element*
- 1569373847 *Design and Realization of a New Antenna for Localization with RFID*
- 1569374313 *Future Architectures for ESA Deep Space Ground Stations Antennas*
- 1569369989 *A Wideband Conformal Antenna Array for Cognitive Radio/MIMO Applications*
- 1569370055 *Asymmetric Array Elements for Symmetric Scan Performance*
- 1569370125 *Design of a Low Profile Printed Array of Loaded Dipoles with Inherent Frequency Selectivity Properties for 'Filtenna' Applications*
- 1569370285 *Direction Dependent Antenna Modulation Using a Two Element Array*
- 1569370299 *New Circularly Polarized Slot Radiator for Substrate Integrated Waveguide (SIW) Planar Array*
- 1569370335 *Unusual Tapering of Leaky-Wave Radiators and Their Applications*

A13 - Reflector and lens antennas, Wednesday April 13, 9:00-12:40

- 1569373973 *A Novel 3D Printed Focusing Probe in Scattering-type Scanning Near-field Millimeter & Terahertz Wave Microscope*
- 1569370037 *Collimating and Resonant Properties of Two-Shell Radially Symmetric Lenses*
- 1569371815 *Wide Band Hat-Fed Reflector Antenna for Satellite Communication*
- 1569374401 *Beam Steerable Quartz Integrated Lens Antenna for 60 GHz Frequency Band*
- 1569369695 *A New Metal-Rod-Supported Hat Antenna for Potentially Combining with the Eleven Antenna as a Dual-Band Feed for Reflectors*
- 1569373747 *Complex-source-point Beam Scattering by a Thin High-Contrast Dielectric Disk*
- 1569374697 *Application of a Hybrid Domain Decomposition Approach for the Analysis of Large Reflector Antennas*
- 1569374565 *Double-shell Modified Extended Hemispherical Lens Feed for Reflectors in Scanning Applications*
- 1569373909 *A Low-Reflection Flat-Lens Design for Microwave Imaging System*

A14 - Multiband, wideband, UWB antennas I, Wednesday April 13, 9:00-12:40

- 1569369493 *Dual-Band Annular-Ring Microstrip Antenna with Bow Tie Shaped Aperture Coupling*
- 1569369995 *A New UWB Radar System Using UWB CMOS Chip*
- 1569369999 *Optimization of Matching Circuits for Antennas*
- 1569370137 *A Dual Polarized Low Profile UWB Antenna for Building Material Analysis*



1569370357 *Novel UWB Low-Profile Sinuous Slot Antenna*
1569370373 *Particle Swarm Antennas for Wireless Communication Systems*
1569370733 *A Compact Wideband Dielectric Resonator Antenna for C-Band Application*
1569373697 *Design and Analysis of a Band-Notched UWB 1 to 4 Wilkinson Power Divider Using Symmetric Defected Ground Structure*
1569373817 *Wideband Double Ridged Horn Antenna: Pattern Analysis and Improvement*
1569372925 *Omnidirectional Low-Dispersive UWB-Antenna*

A15 - New materials, meta-materials, EBG structures II, Wednesday April 13, 16:40-18:20

1569374547 *Metadispersion for a Cascade of Planar Periodic Structures*
1569369907 *Equivalent Circuit Model and Reflection Phase Control Methods for Dual-band AMC*
1569369963 *Influence of Number of Rings on Radiation of CSRR-Loaded Leaky Wave Antenna*
1569370133 *A Low Loss Rat Race Balun in Gap Waveguide Technology*
1569370211 *Flexible Uniplanar Artificial Magnetic Conductor*

A16 - Small antennas, RFID tags and sensors I, Wednesday April 13, 16:40-18:20

1569369071 *Impedance Matching Study of a Metal Mountable RFID Tag: Analysis of Matching Tolerances and a New Impedance Matching Method*
1569373961 *RFID on the Road---Some Considerations About Passive Tag Antennas*
1569375603 *Optimization of an Antenna for Wireless Energy Transfer*
1569372921 *Dual-Band RF Energy-Harvesting Circuit for Range Enhancement in Passive Tags*

A17 - MIMO, smart and signal processing antennas II, Wednesday April 13, 16:40-18:20

1569374535 *Discussion of Statistical Metrics for MIMO OTA Performance Based on Empirical Results*
1569370329 *Isolation Improvement Method for Mobile Terminal Antennas At Lower UHF Band*
1569370953 *Small Radiating Ground Plane with Higher Order Modes*
1569372943 *On the Limits of MIMO Systems: Complete Matrix Model and Intuitive Graphic Representation*
1569368645 *Printed, Low-Cost, Dual-Polarized Dual-Loop-Antenna System for 2.4/5 GHz WLAN Access Points*

A18 - Beamforming, data processing and multiple beam antennas II, Wednesday April 13, 16:40-18:20

1569369841 *5x1 Linear Antenna Array for 60 GHz Beam Steering Applications*
1569374611 *Implementation of Broadband microstrip-U Coupled Patch Array on Si/BCB Membrane for Beamforming Applications At 60 GHz*
1569370831 *UWB SAR Medical Imaging Via Broadband Minimum Variance Distortionless Response (MVDR) Algorithm*
1569368545 *Design of Multibeam CORPS-BFN for Cellular Mobile Communication Systems*

A19 - Planar and conformal antennas II, Wednesday April 13, 16:40-18:20

1569371623 *Balanced Antipodal Vivaldi Antenna with Novel Transition From Feeding Line to the Flares*
1569370815 *Gain Compensation of a Printed Log Periodic Dipole Array Antenna by Cutting-away the Dielectric*
1569374549 *Optimal Synthesis of Directivity Constrained Shaped Beams by Means of Circularly Symmetric Planar Continuous Sources*
1569367643 *Integrated, Single-Feed, Dual-Polarized Loop Antenna for Compact, Outdoor Access-Point Applications*



A20 - Mobile communication II, Wednesday April 13, 16:40-18:20

- 1569371061 *Evaluation and Analysis of the Hidden Node Margin for Cognitive Radio System Operation in a Real Scenario*
1569369919 *Wideband Slotted Radiating Ground Plane for Mobile Applications*
1569370047 *A Compact and Reconfigurable DVB-H Antenna for Mobile Handheld Devices*
1569374417 *Low-sized X-Band Antenna for WiMax Applications*
1569370659 *Fundamental Study on U-Shaped Folded Dipole Antenna for WiMAX*

A21 - RCS reduction, prediction, imaging and related theory, Wednesday April 13, 16:40-18:20

- 1569369951 *Broadband RCS Reduction Using AMC Technology*
1569369773 *Design of a Wideband Radar Absorbing Structure*
1569373795 *Analytical Estimation*
1569374781 *Imaging Through Random Media*
1569367245 *RCS Reduction Using a Combination of Artificial Magnetic Conductors*

A22 - Time domain methods, Wednesday April 13, 16:40-18:20

- 1569370031 *Receiving Properties of the Multimode Rectangular Waveguide At Pulsed Field Plane Wave Incidence - a Time-Domain Approach*
1569370555 *Application of the Dual-Grid Scheme in BoR-FDTD for the Simulation of Reflector Antennas*
1569370819 *Antenna Source Identification in Time Domain Electromagnetic*
1569370899 *On the Behaviour of the Electromagnetic Fields At Edges in the Analysis of TM Scattering by Perfectly Conducting Polygonal Cross-Section Cylinders*
1569368735 *A New Robust Technique for Transient Analysis of Conducting Cylinders - TM Case*

A23 - Electromagnetic exposure and interactions, Wednesday April 13, 16:40-18:20

- 1569369897 *Experimental System for the Study of Multi-frequency Dosimetry*
1569372185 *Hybridized Axonal Field Model for Signal Estimation in Magnetic Resonance Imaging*

A24 - Multiband, wideband, UWB antennas II, Thursday April 14, 9:00-12:40

- 1569374409 *Bandwidth Enhancement of CRLH Leaky-Wave Antennas*
1569374551 *UWB RFID Backscattered Energy in the Presence of Nearby Metallic Reflectors*
1569374581 *Improved Design of an Ultra Wideband Universal Serial Bus Device Mounted Antenna Based on Comparative Radiation Efficiency Measurements*
1569367771 *Ultra-Wideband Microstrip Antenna with Coupled Notch Circuit*
1569369269 *Air-gap Standing Parallel Strips Waveguide for X-ray Lithography Fabrication: Characteristics and Antenna Application*
1569369569 *Optimization of Frequency-Independent UWB Inverted-Hat Antenna Using Genetic Algorithm*
1569369987 *Configuration Requirement for Log-Periodic Array Antennas*
1569370057 *Investigation of Backfire Monofilar Helical Antenna*
1569369851 *Compact High-Gain Short-Horn Antenna for UWB Applications*
1569369803 *Design of Triple-Band Dipole-Type Antenna with Dual-Band Artificial Magnetic Conductor Structure*

A25 - Reflectarrays, Thursday April 14, 9:00-12:40

- 1569369875 *Folded Reflectarray Antenna Using Modified Reflection Grid for Beam-Steering*
- 1569374537 *Dual-Reflectarray Antenna for Bidirectional Satellite Links in Ku-Band*
- 1569369913 *Accurate Analysis of Printed Reflectarrays Using Extended Local Periodicity Approach*
- 1569374479 *Demonstration of a Gathered Element for Reconfigurable-Beam Reflectarrays Based on Ohmic MEMS.*
- 1569375085 *Efficient Electromagnetic Simulation of Periodic Microstrip Reflectarrays Using Scale-Changing Technique*
- 1569369729 *Design and Characterization of 2-bit Passive Unit-Cells and Transmit-Arrays in X-Band*
- 1569370581 *Robust 2-bit Dual-Linearly-Polarised Unit-Cell for Reflectarray Applications*
- 1569374465 *Validation of Concentric Square Rings Backscattering for Reflectarray Applications*
- 1569370379 *Reflectarray Antennas with Accurate Calculation of Phase Shifts*
- 1569373755 *On Cross-Polarization in Spiraphase-Type Reflectarrays with Elements Based on Ring Slot with Loaded Stubs*

A26 - Millimeter / Sub-millimeter wave and THz technologies I, Thursday April 14, 9:00-12:40

- 1569370029 *Freestanding Sub-millimetre Wave FSS Technology*
- 1569374485 *60 GHz Ultrawideband Hybrid-Integrated Dual-Polarized Front-End in LTCC Technology*
- 1569374589 *Dual-Polarized Architecture for Ultrawideband Channel Sounding At 60 GHz with Digital/Analog Phase Control Based on 0.25mm SiGe BiCMOS and LTCC Technology*
- 1569370079 *Design of Orthomode Transducer Using Gap Waveguide Technology*
- 1569370105 *Low Loss Goubau Line on High-Resistivity Silicon in the 57-64 GHz Band*
- 1569370161 *Wideband W-band Patch Antenna*
- 1569370241 *Dielectric Horn Antennas in the Terahertz Band*
- 1569371641 *Parasitic Mode Suppression Techniques for Shielded Fabry-Perot Cavity Antennas*
- 1569370417 *Recent Developments and Recommendations for Improving Harmonic Transponder and Radar for Tracking Low Flying Insects*
- 1569373833 *Electrically Tunable Liquid Crystal Phase Shifter in Antipodal Finline Technology for Reconfigurable W-Band Vivaldi Antenna Array Concepts*

A27 - New materials, meta-materials, EBG structures III, Thursday April 14, 16:40-18:20

- 1569370419 *Artificial Surfaces Formed by Tessellations of Intertwined Spirals*
- 1569370689 *Contribution on Notch Antenna Loaded by Magneto-dielectric Material*
- 1569372761 *Beamwidth Control of 1D LWA Radiating At Broadside*
- 1569374517 *A Comparative Study of Reflection Characteristics of Artificial Ground Planes Incorporating a Slanted Sheet Vias or Slots*
- 1569370173 *Mutual Coupling Reduction for Integrated Pin-Made Feed*
- 1569370007 *Chiral Antenna Element as a Low Backscattering Sensor*

A28 - Small antennas, RFID tags and sensors II, Thursday April 14, 16:40-18:20

- 1569370441 *Dual-Band Meandered Folded Printed Quadrifilar Helix Antenna*
- 1569370525 *Analysis and Improvement of Reverberation Chamber Method for Characterization of Small and Terminal Antennas*
- 1569373271 *A Miniature Printed Antenna with Outer Surface Cable Current Suppression and Low Proximity Effects*
- 1569376123 *DVB-T Reception Test with Ultra Miniature CPW Antenna*

A29 - Millimeter / Sub-millimeter wave and THz technologies II, Thursday April 14, 16:40-18:20

- 1569370617 *Fabrication of Antennas on a Thick Resin Layer Fed Through a Hole From the Bottom in a Silicon Chip At 60GHz*
 1569374493 *A Compact Dual-Polarized Wideband Patch Antenna Array for the Unlicensed 60 GHz Band*
 1569371643 *COMPACT Metallic Self-Polarizing FP Cavity ANTENNAS with SMALL LATERAL SIZE*
 1569374715 *Novel LTCC UWB 60GHz Semi-shielded Aperture Stacked Patch Antenna with Differential Feeding*
 1569374773 *Analytic Approach to the Analysis of Ridge and Groove Gap Waveguides - Comparison of Two Methods*

A30 - Active and integrated antennas I, Thursday April 14, 16:40-18:20

- 1569368357 *Independently Reconfigurable Multiband High Impedance Surface for L, C, X AND Ku RADAR Bands*
 1569369483 *Performance Degradation in Silicon Integrated Antennas Due to Coils for Inductive Energy Coupling*
 1569372553 *PIFA Top-Loaded Monopole Antenna with Diversity Features for WBAN Applications*
 1569369522 *A Double-Dipole Antenna with Parasitic Elements for 122 GHz System-in-Package Radar Sensors*
 1569370011 *MEMS-4-MMIC: Design of Antenna Array Front End At 24 GHz*

A31 - Planar and conformal antennas III, Thursday April 14, 16:40-18:20

- 1569371263 *An X-band Slotted Waveguide Array for Radar Applications*
 1569374511 *New Surface Wave Antennas*
 1569376089 *A Novel Single Layer Patch Antenna for Ka Dual Bands In-Flight Entertainment*
 1569370921 *Independent Control of the Leakage Rate and Pointing Angle of a Novel Planar Leaky-Wave Antenna*

A32 - Other antenna topics, Thursday April 14, 16:40-18:20

- 1569374083 *A Millimeter-Wave Wide-Band Transition From a Differential Microstrip to a Rectangular Waveguide for 60 GHz Applications*
 1569369763 *Singly-Fed Dielectric Resonator Antennas with a Wideband Circular Polarization*
 1569370393 *An Ultralow Cross Polarization Slotted Waveguide Chebyshev Array Antenna*
 1569370969 *Suppression of the Slot-Mode Propagation in a Slitted Waveguide*

A33 - Numerical methods, Thursday April 14, 16:40-18:20

- 1569370283 *Particle Swarm Optimization Algorithm with Moving Boundaries as a Powerful Tool for Exploration Research*
 1569370499 *Analysis of Flare Rolling and Corrugating Effects for H-plane Horn Radiator*
 1569370691 *Compressed Sensing in Electromagnetics: Theory, Applications and Perspectives*
 1569374281 *Radiation Efficiency and Q Factor Study of Franklin Antenna Using the Theory of Characteristic Modes*
 1569374349 *Wideband Tracking of Characteristic Modes*

A34 - Space application antennas, Thursday April 14, 16:40-18:20

- 1569374335 *Design and Final Testing of Pband Ground Station Antenna for Galileo in Orbit Test System*
- 1569375537 *Multi-Objective Optimization of XBA Sentinel Antenna*
- 1569368737 *Antenna for Precise Orbit Determination of the Sentinel Satellites*
- 1569375589 *SHF Antenna Farm*
- 1569372593 *Design and Verification of Argos Tx Rx Space Segment Antenna*

A35 - Medical applications, Thursday April 14, 16:40-18:20

- 1569370731 *Accuracy Investigation of an Ultra-Wideband Time Domain Microwave Imaging System*
- 1569374643 *A Theoretical Investigation of a Loaded Micelle Exposed to Pulsed E-field*
- 1569385153 *Progress in Clinical Diagnostics and Treatment with Electromagnetic Fields*
- 1569374005 *Synthesis of a Wideband Antenna Array for Microwave Imaging Applications*
- 1569375069 *Interaction Between MRI RF Field and Pacemaker Holders: A Comparison Between Birdcage and TEM Coils in 3 T Systems*

A36 - New materials, meta-materials, EBG structures IV, Friday April 15, 9:00-12:40

- 1569368063 *Elastic Antennas with Self Compensating*
- 1569370155 *Engineered Birefringence Positive-Negative Effective Indices: Interferometric Techniques and Wedge Experiment*
- 1569373853 *Investigation of Stability of Negative Capacitors for Use in Active Metamaterials and Antennas*
- 1569370409 *Spherical Active Coated Nano Particles - Impact of the Electric Hertzian Dipole Orientation*
- 1569370403 *Enhancing Antenna Gain Using Magnifying Wire Medium*
- 1569374755 *Modelling EBG Surfaces Using Amended DB Boundary Conditions*
- 1569375137 *Broadband Extraordinary Transmission Device Realized with Dielectrics*
- 1569369957 *Novel Frequency Selective Electromagnetic Absorber Combining Honeycomb Waveguide and Carbon Nanotube Composites*
- 1569373739 *Method of Moments Formulation for the Analysis and Design of Plasmonic Nano-Optical Antennas of Arbitrary Shape*
- 1569374183 *Dual Band Textile Antenna on EBG for WiFi Applications*

A37 - Array antennas III, Friday April 15, 9:00-12:40

- 1569370025 *On the Optimal Synthesis of Phase-Only Reconfigurable Antenna Arrays*
- 1569373897 *Synthesis of Large Sparse Linear Arrays by Bayesian Compressive Sensing*
- 1569374577 *Optimizing Uniformly Excited Time-Modulated Linear Arrays*
- 1569373017 *MEMS Based Waveguide Phase Shifters for Phased Arrays in Automotive Radar Applications*
- 1569373979 *The New Role of Time-Modulation for Innovative Array Synthesis*
- 1569374089 *Design of Waveguide-Fed Series Slot Array Antenna for 45° Linear Polarization Using Substrate Integrated Waveguide (SIW) for Ka-band*
- 1569369975 *Comparison of 60 GHz Low and High Gain Antennas for Coverage Analysis of Aircraft In-cabin Radio Link*
- 1569370387 *On a Multi-Objective Approach in the Non-Uniform Symmetrical Linear Antenna Array Design*

A38 - Multiband, wideband, UWB antenna III, Friday April 15, 9:00-12:40

- 1569366033 *Optimization of UWB Planar Antennas Using Adaptive Design Specifications*
- 1569368525 *Compact and Flexible Ultra Wideband Antenna for Wearable Applications*
- 1569370391 *UWB Planar Monopole Antenna with Stable Radiation Pattern and Low Transient Distortion*
- 1569370509 *BROADBAND Leaky-Wave Antennas with Double-Layer PRS: ANALYSIS AND DESIGN*
- 1569370627 *UWB Printed Slot Antenna with Added Band and Notches*
- 1569370979 *PIFA Antenna for UWB Applications with WLAN Band Rejection Using Spiral Slots*
- 1569370995 *A Frequency Tunable Embedded Normal-Mode Helix Antenna for Portable Wireless Devices*
- 1569373319 *Frequency and Time Domain Characteristics of UWB Cavity-Backed Slot Antenna Array*
- 1569375729 *A Novel Dual-band and Dual-polarised Antenna for WLAN Systems*
- 1569377913 *Photoconductive Switches for Radar Systems Exploiting Time Domain*

A39 - Active and integrated antennas II, Friday April 15, 9:00-12:40

- 1569369829 *Integrated Cognitive Radio Antenna Using Reconfigurable Band Pass Filters*
- 1569370149 *Compact Frequency Agile Slot Ring Resonators for Reflectarray Phase Shifting Cells*
- 1569369001 *Circularly Polarised Antenna Requirements Within a Reverberant Phase Conjugation Communication System*
- 1569370169 *Electronic Steering Antenna Onboard for Satellite Communications in X Band.*
- 1569369849 *W-band Vivaldi Antenna in LTCC for CW-Radar Nearfield Distance Measurements*
- 1569371113 *Novel All-Dielectric Mm-Wave Horn Antennas Based on EBG Structures*
- 1569370725 *RF-MEMS-based Millimeter-Wave Switch for Integrated Antenna Applications*
- 1569370737 *Equivalent Circuit of FSS Loaded with Lumped Elements Using Modal Decomposition Equivalent Circuit Method*
- 1569374411 *Increasing Parallel-plate Stop Band in Gap Waveguides Using Inverted Pyramid-Shaped Nails for Slot Array Application Above 60 GHz*
- 1569370077 *Effect of On-Air-Combining on the Signal Quality in Distributed Transmitter Systems*

A40 - Reconfigurable antennas, Friday April 15, 9:00-12:40

- 1569369783 *Overcoming Failures in Reconfigurable Antenna Arrays Using Equivalent Frequency Dependent Graphs*
- 1569370197 *Influence of a Magneto-Dielectric Resonator on DVB-H Antenna Performances*
- 1569370289 *Reconfigurable Monopole Antennas*
- 1569370699 *Log-periodic Antenna with Tunable Frequency*
- 1569373289 *Multi-functional Miniaturized Slot Antenna System for Micro/Nano-Satellites*
- 1569370001 *Design of Vivaldi Antennas with Embedded Reconfigurable Stopband Filter*
- 1569370083 *Miniature Reconfigurable Antenna with Magneto Dielectric Substrate for DVB-H Band.*
- 1569373145 *Wide Frequency Reconfigurability on a Miniature Omnidirectional Antenna Combining Variable Capacitance and Inductance*
- 1569370229 *Pixeled-Dipole Based Isofrequency Reconfigurable RF Repeater*
- 1569373291 *Design of a Reconfigurable Antenna for Ground Penetrating Radar Applications*



A41 - Small antennas, RFID tags and sensors III, Friday April 15, 11:00-12:40

- 1569373261 *A Linearly Polarized Huygens Source Formed by Two Omega Particles*
- 1569374257 *RFID Tag Antenna for Passive Strain Sensing*
- 1569374627 *A New Enhanced UHF RFID Sensor-Tag*
- 1569374749 *Reduction of the Absorption Loss in the Head Via a Metamaterial Inspired Z Antenna*

A42 - Integral equations methods, Friday April 15, 9:00-12:40

- 1569368725 *Considering Surface Diffraction in the Hybrid FE/BI-MLFMM-UTD Method*
- 1569369979 *A 'Charge and Current' Formulation of the Electric Field Integral Equation*
- 1569370097 *Boolean Operations Implementation Over 3d Parametric Surfaces to Be Included in the Geometrical Module of an Electromagnetic Solver*
- 1569370157 *Double Exponential Quadrature Formulas for the Direct Calculation of Sommerfeld Integral Tails*
- 1569373317 *A Parametric Study of the Double Exponential Algorithm Utilized in Weakly Singular Integrals*
- 1569373851 *Solving Electrically Large Electrodynamics Problems Using Graphics Processing Units*
- 1569374239 *Multipole Accelerated Macro Basis Functions Analysis of Printed Antenna Arrays*
- 1569374505 *A Uniform High Frequency Solution for Triple Diffraction From Straight Wedges*
- 1569374521 *Adaptive Numerical Integration Algorithms for the Evaluation of Surface Radiation Integrals*
- 1569374545 *Application of Hybrid MoM and Multilayered Green Function Approach to Analysis of EM/EMI Problems Related to Printed Circuit Boards and Microstrip Antennas*

M01 - Wireless systems antenna measurements, Tuesday April 12, 9:00-12:40

- 1569369661 *Determination of Maximum Doppler Shift in Reverberation Chamber Using Level Crossing Rate*
- 1569369815 *Estimation of Peak Spatial-Average SAR of Inverted F-Antenna on Metal Plate Using Lightweight Phantom Composed of Wave Absorber*
- 1569370109 *Upper Bounds on Fixed-Size Wheeler Cap Efficiency Measurements - Part I: System Model and Rectangular Cavities*
- 1569370111 *Upper Bounds on Fixed-Size Wheeler Cap Efficiency Measurements - Part II: Spherical and Cylindrical Cavities*
- 1569370119 *Total Scattering Cross Section Improvements From Electromagnetic Reverberation Chambers Modeling and Stochastic Formalism*
- 1569370563 *Arbitrary Fading Emulation*
- 1569371305 *Indoor Angular Profile Measurements and Channel Characterization At the Millimeter-Wave Band*
- 1569373469 *Characterization of Integrated Antennas At Millimeter-Wave Frequencies*
- 1569374009 *Source-Stirred Method for Antenna Efficiency Measurements*

M02 - Advances in indoor and outdoor test ranges, Tuesday April 12, 16:40-18:20

- 1569368715 *The CDT Ultra Wide-Band Anechoic Chamber*
- 1569371195 *Signature Measurements in Monostatic and Bistatic SAR Configuration*
- 1569374695 *Electrical Alignment of Antenna Coordinate System in a Planar Near-Field Setup*
- 1569374793 *RCS Measurement Results for Automotive Related Objects At 23-27 GHz*

M03 - Advances in EM field measurements, Wednesday April 13, 9:00-12:40

- 1569369679 *Microwave Non-Destructive Evaluation of Corrosion in Reinforced Concrete Structures*
- 1569369955 *Absolute Field Strength Measurements of Slotted Enclosures Using an Electro-Optical Field-Sensor*
- 1569370473 *Retrieving Half-Space Fresnel Coefficients by Multistatic GPR Data*
- 1569370505 *Contactless Measurement Method for Integrated mm-Wave Antennas*
- 1569370759 *Radar Target Identification of Mining Infrastructure for Automated Mine Machinery Navigation*
- 1569370915 *Frequency Selective Surface Absorber for WLAN Security*
- 1569370951 *Low Cost Measurement Setup for Passive Microwave Remote Sensing by Aperture Synthesis Technique*
- 1569374019 *UWB Imaging Algorithms for Microwave Radar Breast Screening: The Value of Propagation Model Complexity*
- 1569375033 *An Effective Toolbox for Water Distribution Network Monitoring*
- 1569377581 *Microwave Tomography for GPR Investigations on a Steep Fractured Rock Slope: An Example From Maratea*

M04 - Phased-array and adaptive antenna testing, Thursday April 14, 11:00-12:40

- 1569370453 *Near/Farfield Measurements of a Polarisation Agile Phased Array At Ku-Band*
- 1569370591 *Precise Element Field Measurement for Phased Array Calibrations*
- 1569373923 *New Calibration Method Used for Active Phased Array Antennas*
- 1569374423 *OTA Throughput Testing of Multi Antenna Terminals by Using StarMIMO Test Range*
- 1569375643 *Radiation Characteristics on Fading Generator Using Scattering Objects*

M05 - Measurement algorithms and processing techniques, Thursday April 14, 16:40-18:20

- 1569370233 *Antenna Calibration for Near-Field Problems with the Method of Moments*
- 1569370589 *Time-Saving Scanning Schemes for Measurement of Electrically Large Antennas by Spherical Near-Field Technique*
- 1569371293 *Profile Reconstruction Using the Sources Reconstruction Method*
- 1569372961 *Echo Characterization for Imperfect Antenna Measurement Systems*
- 1569373233 *An Efficient Approach to the Near-Field Sampling of Electromagnetic Fields*

P01 - Rough surface and random media scattering, Monday April 11, 14:00-16:20

- 1569368459 *Non-Specular Scattering Modeling for THz Propagation Simulations*
- 1569369961 *Stochastic Scattering Model for the Application of SBR to Rough Surfaces*
- 1569370513 *Path-Integral Derivation and Analysis of Approximate Directed Wave Propagators*
- 1569372813 *On the Practical Applicability of Series Expansions for Kirchhoff Diffractals*

P02 - Propagation in remote sensing, Monday April 11, 16:40-18:20

- 1569370607 *Target Classification Through Time-Reversal Operator Analysis Using Ultrawideband Electromagnetic Waves*
- 1569369719 *System Simulation of a Localization System Based on Power Level Detection with Distributed Antennas*
- 1569368621 *Effects of Incident Wave Polarization on Boresight Error*
- 1569368663 *Polarization Investigation of Rough Surface Scattering for THz Propagation Modeling*
- 1569375083 *Modeling Polarimetric Effects of Precipitation on Spaceborne Side-Looking Aperture Radar Response*
- 1569373987 *Landmine Detection Using GPR and Polarimetric SAR*

P03 - Propagation models for millimetre and sub millimetre waves, Tuesday April 12, 9:00-10:40

- 1569368743 *FDTD Channel Modelling with Time Domain Huygens' Technique*
 1569370203 *Considerations on Cloud Attenuation At 100 and 300 GHz for Propagation Measurements Within the TERASENSE Project*
 1569373885 *Conversion of Evanescent Waves Into Propagating Modes by Passing Through a Metamaterial Prism: An Iterative Approximation Method*
 1569374017 *A Physical Analytical Model for the Connectivity Evaluation of Dual-Polarized Millimeter- Wave Multi-Hop Backhaul Networks*
 1569374693 *Frequency Scaling and Estimation of Attenuation and Other Propagation Parameters Using the Köppen Climatic Classification*

P04 - Propagation aspects in Wireless Sensor Networks, Tuesday April 12, 9:00-10:40

- 1569370199 *Study of Line of Sight (LOS) and None Line of Sight (NLOS) Ultra Wideband Off-Body Radio Propagation for Body Centric Wireless Communications in Indoor*
 1569370867 *UHF Radio Channel Characterization for Wireless Sensor Networks Within an Aircraft*
 1569371573 *Topological Analysis of Performance in Indoor ZigBee Systems*
 1569374007 *Feasibility Analysis of Peer-to-Peer Microwave Communications Between Self-powered Miniature Devices Taking Into Account Statistics of Their States*
 1569375987 *Localization of Active UWB Sensor Nodes in Multipath and NLOS Environments*

P05 - Tropospheric propagation, Tuesday April 12, 11:00-12:40

- 1569370401 *From Cumulative NWP Precipitation Data to Small Scale Rain Intensity Distribution: Assessment of a Procedure*
 1569373699 *Analysis of Rain Influence on Joint Millimeter and Optical Elevated Links*
 1569372025 *Phase Delay and Differential Attenuation Due to Rain in Large Phased Array Antennas for Deep-Space Communications At 32 GHz*
 1569367167 *Measured and Simulated Fluctuations of Received Power on 11 GHz Terrestrial Path Using Vertical Profiles of Atmospheric Refractivity*
 1569374681 *Estimation of Rain Attenuation At Millimeter Waves From Experimental Drop Size Distributions*

P06 - UWB channel modelling, Tuesday April 12, 11:00-12:40

- 1569368527 *Sectorised Radio Channel Characterisation for Ultra Wideband Body-centric Wireless Communications*
 1569370389 *Time-Domain Modeling of UWB Channel Containing Many Convex Obstacles in Cascade*
 1569370791 *Simulated UWB Channel Modelling for Aircraft*
 1569370804 *Frequency Selectivity in Confined Environments*
 1569373241 *Performance Evaluation of Time Reversal in Intra-Vehicular Environment*

P07 - Propagation models for automatic network planning, Tuesday April 12, 16:40-18:20

- 1569377259 *Surrogate Optimization of Indoor Radio Coverage*
 1569369535 *Prediction of Range, Power Consumption and Throughput for IEEE 802.11n in Large Conference Rooms*
 1569369977 *Automatic Network Optimization and Dynamic Network Management Using a Propagation Prediction Tool in a Living Lab Setting*
 1569370165 *Optimization of Single Frequency Networks for DVB-T Services Using SA and PSO*
 1569374403 *Analysis of the Mast Contribution to the Scattering Pattern of Wind Turbines in the UHF Band*

P08 - Propagation for fixed satellite service, Wednesday April 13, 16:40-18:20

- 1569367855 *Dynamical Evolution of Brillouin Precursors in Multilayered Sea Water-Based Media*
- 1569369939 *Computations of the Effects of a Wind Turbine in the Close Fresnel Zone of a Maritime Radar and Communication System.*
- 1569370431 *Marine CSEM Scattered Subsurface Response Detection Using Total-Field Scattered-Field FDTD Formulation*
- 1569370927 *Testing Single Frequency GPS Receivers Under Ionospheric Disturbances: A New Approach*
- 1569370985 *Heterogeneous Radar Ducting and Radar Performance Due to a Cold Front Advecting Over the Sea of Japan*
- 1569371309 *On the Interference Analysis Between Terrestrial Cellular and Multiple Airborne Wireless Networks*

P09 - Mobile propagation channel measurements, Wednesday April 13, 16:40-18:20

- 1569369911 *Outdoor-to-Indoor Propagation Loss Measurements for Broadband Wireless Access in Suburban Areas*
- 1569369923 *Outdoor-to-Indoor Channels At 2.45 GHz and 5.2 GHz for Geolocation Applications*
- 1569369931 *Wideband Time-Variant Air-To-Ground Radio Channel Measurements At 5 GHz*
- 1569370601 *Empirical Time-Spatial Propagation Formula for Outdoor LOS Environments*
- 1569369839 *Dependency of the Power and Delay Domain Parameters on Antenna Height and Distance in Urban Macro Cell*

P10 - Propagation for maritime and aeronautical applications, Thursday April 14, 9:00-10:40

- 1569354087 *Performance of Site Diversity Technique Estimated From Time Diversity*
- 1569370533 *A Tool for Synthesizing Rain Attenuation Time Series in LEO Earth Observation Satellite Downlinks At Ka Band*
- 1569370567 *Long Term Rain Rate and Ka-Band Attenuation Variability in Aveiro*
- 1569370647 *Simulation of Outage for 21-GHz Band Satellite Broadcasting System Using Frequency Scaling of Measured Rain Attenuation*
- 1569372867 *Mixture Weibull Model Applied to the Cumulative Distribution of Rainfall Induced Attenuation in Tropical Brazil*

P11 - Mobile propagation channel modelling, Thursday April 14, 16:40-18:20

- 1569370193 *Comparisons of UTD-based and FK Models for Propagation Through Windows*
- 1569370997 *Improvement of the SAGE Algorithm Using a Modified Golden Section Search Method*
- 1569374189 *Impact of Wireless Propagation Channel Parameters on IEEE802.11n Performances*
- 1569374591 *Including Embedded Element Antenna Characteristics in Winner II Channel Models and Comparison with Isotropic Propagation Environment*
- 1569374605 *The Microscopic Level of Visibility Regions for Different Scenarios in Urban Environment*
- 1569367107 *Study of Propagation Model and Its Fading Characteristics for Inter-car Wireless Link in High-Speed Train*

P12 -MIMO propagation and system aspects, Friday April 15, 9:00-10:40

- 1569385275 *Experimental MIMO Capacity Results Based on Macro-Cell Metropolitan Channel Measurements in Shanghai*
- 1569373903 *Elevation Parameters for a Geometry-Based Radio Channel Model - MIMO Antenna Efficiency in Different 2-D and 3-D Propagation Environments*
- 1569373939 *Estimation of the 2x2 MIMO Capacity with Dual-Polarized Antennas Under Received Power Imbalance Through Propagation Measurements*
- 1569378453 *Analysis of the Performance of LTE Systems in an Interleaved F-DAS MIMO Indoor Environment*
- 1569369903 *Consideration of MIMO in the Planning of LTE Networks in Urban and Indoor Scenarios*
- 1569374011 *MIMO Capacity in Space and Time Domain for Various Urban and Suburban Environment*



P13 - Electromagnetic propagation modelling, Friday April 15, 11:00-12:40

- 1569369519 *Comparisons of Approximate and Exact Solutions for Forward Scattering*
- 1569369941 *Efficient Implementation and Evaluation of Parallel Radio Wave Propagation*
- 1569373855 *Green's Function Formulation for Multilayered Cylinder Structures and Its Application to Scattering Problems*
- 1569374179 *Propagation Velocity Equalizer Circuit on Multil Microstrip Transmission Line Structure*
- 1569374849 *Surface Boundary Conditions for Lossy Dielectrics to Model Electromagnetic Wave Propagation in Tunnels*