

EuCAP Best Paper Awardees

EuCAP 2006

Best Paper

Distributed scattering in radio channels and its contribution to MIMO channel capacity
A. Richter, J. Salmi and V. Koivunen

EuCAP 2007

Best Antenna Oral Paper

Near-Singular and Near-Hypersingular Surface Integral Evaluation by an Adaptive Singularity Cancellation Technique
Ismatullah and T. F. Eibert

Best Antenna Poster Paper

Frequency-Selective Wallpaper for Reducing Interference While Increasing MIMO Capacity in Indoor Environments
J. Rodriguez, M. Gustafsson, F. Tufvesson, A. Karlsson and L. Juan-Llacer

Best Antenna Student Paper

A New Low-Profile Wide-Scan Phased Array for UWB Applications
D. Tallini, A. Galli, M. Ciattaglia, L. Infante, A. De Luca and M. Cicolani

Best Propagation Oral Paper

Channel Capacity Evaluation of UMTS Multi-Antenna Systems in Indoor and Outdoor Environments
A. Diallo, C. Luxey, P. Le Thuc, R. Staraj, G. Kossiavas, P. Suvikunnas, M. Mustonen, C. Icheln and P. Vainikainen

Best Propagation Poster Paper

Modelling Radiowave Propagation through Vegetation media: a comparison between RET and dRET models
T. R. Fernandes, R. F. S. Caldeirinha, M. O. Al-Nuaimi and J. H. Richter

Best Propagation Student Paper

On the Influence of Incomplete Data Models on Estimated Angular Distributions in Channel Characterisation
M. Landmann, W. Kotterman and R. S. Thoma

EuCAP 2009

Best Antenna Oral Paper

Low cost, short lead-time feed chain components for multi-beam antennas
P. Booth, M. Skeen and S. Stirland

Best Antenna Poster Paper

Complex conical beam expansion for the analysis of beam waveguides
S. Skokic, M. Casaletti, S. Sorensen and S. Maci

Best Measurement Paper

Scaled radar cross section measurements with terahertz-spectroscopy up to 800 GHz
C. Jansen, N. Krumbholz, R. Geise, A. Enders and M. Koch

Best Propagation Oral Paper

Millimeter-wave antenna noise temperature due to rain clouds: Theoretical model and statistical prediction
F. S. Marzano and M. Montopoli

Best Propagation Poster Paper

Small-scale variations of cross-polar discrimination in polarized MIMO systems
F. Quitin, C. Oestges, F. Horlin and P. De Doncker

EuCAP 2010

Best Antenna Theory Paper

Trade-offs in multi-element receiving antennas with superconducting feed lines
A. Iacono, T. J. Coenen, D. J. Bekers, A. Neto and G. Gerini

Best Antenna Design Paper

Distributed Antenna Tuning Unit Using a Frequency Reconfigurable PIXEL-Antenna
A. Grau Besoli and F. De Flaviis

Best Antenna Measurement Paper

Optical Measurement of Millimeter-Wave Antenna for Imaging Concealed Cracks on Concrete Surface
H. Togo, S. Mochizuki, S. Oka, I. Toyoda, N. Kukutsu and Y. Cadeau

Best Propagation Paper

An experiment and preliminary results for narrow-and wideband land mobile satellite propagation at K-band
M. Schönhuber, F. Teschl, V. Hovinen, J. Kyröläinen, F. Pérez-Fontán and R. Prieto-Cerdeira

Best Student Paper

Active antenna oscillator systems in substrate integrated waveguide (SIW) technology
F. Giuppi, A. Georgiadis, M. Bozzi, A. Collado and L. Perregini

EuCAP 2011

Best Antenna Theory Paper

Planar antennas based on surface-to-leaky wave transformation
G. Minatti, M. Casaletti, F. Caminita, P. De Vita and S. Maci

Best Antenna Application Paper

A compact dual-polarized wideband patch antenna array for the unlicensed 60 GHz band
F. Wollenschläger, R. Stephan, L. Xia, J. Muller, R. Muller, A.P.G. Ariza, R. S. Thoma and M. A. Hein

Best Antenna Measurement Paper

Microwave Non-Destructive evaluation of corrosion in reinforced concrete structures
G. Roqueta, L. Jofre and M. Feng

Best Propagation Paper

K. Haneda, A. Khatun, V. Kolmonen and J. Salmi, "Dynamics of spatial degrees-of-freedom in MIMO mobile channels
S. Nanba, Y. Hirota and Y. Kishi

Best Student Paper

Single layer anisotropic impedance surface for linear to circular polarization conversion in Reflect mode
E. Doumanis, G. Goussetis, J. Gómez-Tornero, R. Cahill and V. Fusco

EuCAP 2012

Best Antenna Theory Paper

Efficiently illuminated broadside-directed 1D and 2D tapered Fabry-Perot leaky-wave antennas
M. García-Vigueras, P. DeLara-Guarch, J. L. Gómez-Tornero, R. Guzmán-Quirós and G. Goussetis

Best Antenna Design Paper

Compact antenna for microsatellite using folded shorted patches and an integrated feeding network
S. K. Podilchak, M. Caillet, Y. Antar and L. Chu

Best Antenna Measurement Paper

Motion compensation and efficient array design for TDMA FMCW MIMO radar systems
C. M. Schmid, R. Feger, C. Pfeffer and A. Stelzer

Best Propagation Paper

Directional channel characteristics in elevation and azimuth at an urban macrocell base station
J. Medbo, H. Asplund, J. Berg and N. Jalden

Best Student Paper

Experimental characterization of the RFID STENTag for passive vascular monitoring
C. Occhiuzzi and G. Marrocco

EuCAP 2013**Best Antenna Theory Paper**

Convex optimization for analysis of small antennas
M. Gustafsson

Best Antenna Design Paper

Bifocal Reflector antenna system for radar imaging at 300 GHz
A. García-Pino, B. Gonzalez-Valdes, B. Mencia-Oliva, J. G. de la Fuente, O. R. López and J. L. B. Sanmartín

Best Antenna Measurement Paper

Micromachined near-field millimeter-wave medical sensor for skin cancer diagnosis
F. Töpfer, S. Dudorov, D. Dancila, R. Augustine, X. Hu, A. Rydberg, L. Emtestam, L. Tenerz and J. Oberhammer

Best Propagation Paper

Dynamics of spatial degrees-of-freedom in MIMO mobile channels
K. Haneda, A. Khatun, V. Kolmonen and J. Salmi

Best Student Paper

Dielectric lens fed by coherent connected-slot array as wideband reflector feed
Ozan Yurduseven, D. Cavallo, A. Neto

EuCAP 2014

Best Antenna Theory Paper

Closed-form expressions of local effective bianisotropic constitutive parameters for reciprocal metamaterials

V. Sozio, A. Vallecchi, M. Albani and F. Capolino

Best Antenna Application Paper

On design of differentially driven on-chip antennas with harmonic filtering for silicon integrated mm-wave and THz N-push oscillators

J. Grzyb, Y. Zhao, R. A. Hadi and U. Pfeiffer

Best Antenna Measurement Paper

Increased dynamic range for RFID EM-field measurements

S. Capdevila, J. Romeu, L. Jofre and J. Bolomey

Best Propagation Paper

A Compressed Sensing-based imaging system

Y. Álvarez-López, Y. Rodríguez-Vaqueiro, B. González-Valdés, J. Á. Martínez-Lorenzo, F. Las-Heras and C. M. Rappaport

Best Student Paper

Novel dual-band single circular polarization antenna feeding network for satellite communications

C. A. Leal-Sevillano, J. A. Ruiz-Cruz, J. R. Montejo-Garai and J. M. Rebollar

EuCAP 2015

Best Electromagnetics and Antenna Theory Paper

Intersymbol interference analysis of a 60 GHz-band compact range wireless access system

M. Zhang, K. Araki, J. Hirokawa and M. Ando

Best Antenna Design and Applications Paper

Multistatic nearfield imaging radar for portal security systems using a high gain toroidal reflector antenna

C. M. Rappaport and B. Gonzalez-Valdes

Best Antenna Measurement Paper

DTU-ESA millimeter-wave VAlidation SStandard antenna (mm-VAST) - detailed design

O. S. Kim, S. Pivnenko, O. Breinbjerg, R. Jørgensen, N. V. Larsen, K. Branner, P. Berring, C. M. Markussen and M. Paquay

Best Propagation Paper

Joint effects of clouds and rain on Ka-band earth observation data downlink systems
L. Luini and C. Capsoni

Best Student Paper

Analysis of electrically large antennas using fast Physical Optics
O. Borries, H. Viskum, P. Meincke, E. Jørgensen, P. C. Hansen and C. H. Schmidt

EuCAP 2016

Best Electromagnetics and Antenna Theory Paper

Large Format Arrays of Antenna Coupled Kinetic Inductance Detectors for THz Astronomy
J. Baselmans, J. Bueno, O. Yurduseven, N. Llombart, S. Yates, A. Baryshev, A. Endo, D. Thoen and A. Neto

Best Antenna Design and Applications Paper

Hematologic characterization and 3D imaging of red blood cells using a Compressive Nano-antenna and ML-FMA modeling
H. Gómez-Sousa, Ó. Rubiños-López and J. Á. Martínez-Lorenzo

Best Antenna Measurement Paper

Accuracy evaluation for antenna measurements at mm-wave frequencies
L. Boehm, F. Boegelsack, M. Hitzler, S. Wiehler and C. Waldschmidt

Best Propagation Paper

Modelling the impact of offshore wind farms on safety radars onboard Oil and Gas platforms
L. Danoon, W. Al-Mashhadani and A. Brown

Best Student Paper

Systematic approach for electrically tuning N-port antenna system based on characteristic modes
M. Bouezzeddine and W. L. Schroeder

EuCAP 2017

Best Electromagnetics and Antenna Theory Paper

Analysis of Artificial Dielectrics Composed of Non-Aligned Layers
D. Cavallo and C. Felita

Best Antenna Design and Applications Paper

Shared aperture metasurface antennas for multibeam patterns
D. Gonzalez-Ovejero, G. Minatti, E. Martini, G. Chattopadhyay and S. Maci

Best Antenna Measurement Paper

Design and calibration of a double-directional 60 GHz channel sounder for multipath component tracking

R. Sun, P. Papazian, J. Senic, Y. Lo, J.-K. Choi, K. A. Remley and C. Gentile

Best Propagation Paper

Investigations on fading scaling with bandwidth and directivity at 60 GHz

D. Dupleich, N. Iqbal, C. Schneider, S. Haefner, R. Müller, S. Skoblikov, J. Luo and R. S. Thomä

Best Student Paper (ex equo)

Wireless Monitoring of Breath by Means of a Graphene Oxide-based Radiofrequency Identification Wearable Sensor

M. C. Caccami, M. Y. S. Mulla, C. Di Natale and G. Marrocco

Multi-frequency power angular spectrum comparison for an indoor environment

U. T. Virk, S. L. H. Nguyen and K. Haneda

EuCAP 2018

Best Electromagnetic and Antenna Theory Paper

Design criteria of X-wave launchers for millimeter-wave applications

W. Fuscaldo, D. Comite, A. Galli, S. Congetto Pavone, M. Albani and G. Valerio

Best Antenna Design and Applications Paper

Millimetre-wave FMCW MIMO radar system development using broadband SIW antennas

C. Alistarh, P. H. Re, T. Ströeber, S. Rotenberg, S. K. Podilchak, C. Mateo-Segura, Y. Pailhas, G. Goussetis, Y. Petillot, J. Thompson and J. Lee

Best Antenna Measurement Paper

3.5-THz Quantum-Cascade Laser Emission from Dual Diagonal Feedhorns

B. Ellison, O. Auriacombe, T. Rawlings, N. Brewster, M. Oldfield, L. Li, E. Saenz, A. Valavanis, Y. Han, E. Linfield and A. Davies

Best Propagation Paper

Measurements and model for the satellite-to-aircraft channel in L-band

T. Jost, W. Wang, M. Schwinzerl, F. Perez-Fontan, M. Schonhuber and N. Flouri

Best Student Paper

Accurate determination of radiation patterns from near-field measurements in highly reflective environments

J. Knapp and T. F. Eibert

EuCAP 2019

Best Antenna Theory Paper

Analysis of Curved Metasurfaces with Spatially-Varying Impedance Distribution

Z. Sipus, D. Barbaric and M. Bosiljevac

Best Antenna Design Paper

Electronically-Steerable Transmitarray Antennas for Ka-Band

A. Clemente, L. D. Palma, F. Diaby, L. Dussopt, K. Pham and R. Sauleau

Best Measurement Paper

Monostatic RCS Prediction from Irregularly Distributed Near-Field Samples Using Plane-Wave Field Synthesis

O. Neitz and T. F. Eibert

Best Propagation Paper

Investigation on Stationarity of V2V Channels in a Highway Scenario

D. Czaniera, M. Käske, G. Sommerkorn, C. Schneider, R. S. Thomä, G. Del Galdo and M. Boban

Best Student Paper

Full-Wave Synthesis of Modulated Metasurface Antennas

M. Bodehou, C. Craeye, E. Martini and I. Huynen

EuCAP 2020

Best Electromagnetics Paper

Elliptical Glide-Symmetric Holey Metasurfaces for Wideband Anisotropy

A. Alex-Amor, F. Ghasemifard, G. Valerio, P. Padilla, J. M. Fernandez-Gonzalez and O. Quevedo-Teruel

Best Antennas Paper

A Compact Mass-producible E-band Bandpass Filter Based on Multi-layer Waveguide Technology

A. Vosoogh, A. AlgabaBrazalez, Y. Li and Z. Simon He

Best Measurement Paper

Suppressing Undesired Echoes by Sparsity Based Time Gating of Reconstructed Sources

J. Knapp, J. Kornprobst, T.F. Eibert

Best Propagation Paper

The MEKaP Project: Measuring Tropospheric Impairments at Ka Bandwidth MEO Satellites

L. Luini, C. Riva, A. Panzeri, A. Rocha, S. Mota, F. Marzano, A. Marziani, M. Biscarini, F. Consalvi, V. Schena and A. Martellucci

Best Student Paper

Metal Stamped Antenna-in-Package for Millimeter-wave Large-scale Phased-array Applications Using Multiphysics Analysis

J. Park and W. Hong

EuCAP 2021

Best Electromagnetics Paper

Reflecting Luneburg Lens: Analytical Solution and Applications

J. Ruiz-García, E. Martini, C. Della Giovampaola, D. González-Ovejero and S. Maci

Best Antennas Paper

Low-Profile CTS Array in PCB Technology for K/Ka-Band Applications

M. Del Mastro, A. Mahmoud, T. Potelon, R. Sauleau, G. Quagliaro and M. Ettorre

Best Measurement Paper

Preliminary Assesment of Millimeter Wave Plane Wave Generator for 5G Device Testing

F. Scattone, D. Sekuljica, A. Giacomini, F. Saccardi, A. Scannavini, E. Kaverine, S. Anwar, N. Gross, P. Iversen and L. J. Foged

Best Propagation Paper

Bayesian Approaches to Multipath-Enhanced Device-Free Localization

M. Schmidhammer, B. Siebler, C. Gentner, S. Sand, and U.-C. Fiebig

Best Student Paper

The Interpath Relation for Spatially-Discrete Traveling-Wave Modulated Structures

C. Scarborough and A. Grbic