



*4th European Conference on Antennas and Propagation*



*12-16 April 2010, Barcelona*

# **EuCAP 2010 AWARDS**

## **List of Finalists**

## **STUDENT CONTEST**

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**First Award-** *Active Antenna Oscillator Systems in Substrate Integrated Waveguide (SIW) Technology*

Giuppi, F\*.; Georgiadis, A\*\*.; Bozzi, M\*.; Collado, A\*\*.; Perregrini, L\*.

\*University of Pavia (Italy)

\*\* Centre Tecnologic de Telecomunicacions de Catalunya (CTTC) (Spain)

**Honorable Mention-** *Two Port Small Antenna Characterization Through Impedance Modulation*

Monsalve, B.; Blanch, S.

Universitat Politècnica de Catalunya (Spain)

**Honorable Mention** –*Sensing the Human Body by Implanted RFID Tags*

Occhiuzzi, C.; Marrocco, G.

University of Roma Tor Vergata (Italy)

## ANTENNA DESIGN

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**First Award-** *A Distributed Antenna Tuning Unit Using a Frequency Reconfigurable PIXEL-Antenna*

Grau Besoli, A.\*; De Flaviis, F\*\*.

\* University of California, Irvine (EUA)

\*\* Broadcom corporation, California (EUA)

**Honorable Mention-** *UWB Leaky Lens Antenna as an Improved Performance Emitter in a THZ Time Domain System*

Llombart, N\*.; Neto, A\*\*.; Siegel, P. H\*\*\*.; Saeedkia, D\*\*\*\*.

\* Universidad Complutense de Madrid (Spain)

\*\*Telecom Dept. EEMCS, Technical University of Delft – Delft, The Netherlands

\*\*\*California Institute of Technology, Pasadena, USA

\*\*\*\*CTO, T-Ray Science Inc., Waterloo, Canada

**Honorable Mention-** *Polarization Reconfigurable MEMS-CPW Antenna for Mm-Wave Applications*

Balcells, J\*.; Damgaci, Y\*\*.; Cetiner, B. A\*\*.; Romeu, J\*.; Jofre, L\*.

\*Universitat Politècnica de Catalunya

\*\* Utah State University (USA)

## PROPAGATION AND ANTENNA MEASUREMENTS

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**First Award-** *Optical Measurement of Millimeter-Wave Antenna for Imaging Concealed Cracks on Concrete Surface*

Togo, H.\*; Mochizuki, S\*.; Oka, S.\*\*; Toyoda\*\*\*, I.; Kukutsu, N\*.; Kado, Y\*.

\*NTT Microsystems Integration laboratories (Japan)

\*\* NTT Access Network Service Ssystems Laboratories (Japan)

\*\*\* NTT Network Innovation Laboratories (Japan)

**Honorable Mention-** *60 GHz Channel Characterization Using a Scatterer Mapping Technique*

Papio, A\*.; Grau, A.; Balcells, J.; Romeu, J.; Jofre, L.; De Flaviis, F.

\*University of California, Irvine (EUA)

\*\* Broadcom Corporation, Californial, Irvina (EUA)

\*\*\* Universitat Politecnica de Catalunya (Spain)

**Honorable Mention-** *Calibration and Performance Measurements of Tthe NASA Deep Space Network Antennas Upgrade for Ka-Band (26-GHz)*

Rochblatt, D.\*; Baines, G\*\*.; Vazquez, M\*\*\*.; Sotuela, I.\*\*\*; Snedeker, C.\*\*\*\*; Ridgway, T.\*; Schredder, M\*\*\*\*; LaBelle, C\*\*\*\*.

\*Jet Propulsion Laboratory, California, (USA)

\*\* Raytheon Australia (Australia)

\*\*\* Ingenieria y Servicios Aeroespaciales (Spain)

\*\*\*\* IIT Industries Systems Division (USA)

## ANTENNA THEORY

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**First Award-** *Trade-Offs in Multi-Element Receiving Antennas with Superconducting Feed Lines*

Iacono, A.; Coenen, T. J.; Bekers, D. J.; Neto, A.; Gerini, G.

TNO, Defence, Security and Safety (The Netherlands)

TU/e, Eindhoven University of Technology, Eindhoven, (The Netherlands)

**Honorable Mention-** *Lower Bounds for Radiation  $Q$  of Very Small Antennas of Arbitrary Topology*

Vandenbosch, G.; Volski, V.

Katholieke Universiteit Leuven (Belgium)

**Honorable Mention-** *Beam Expansion in Multi-reflector Quasi-Optical Systems*

Casaletti, M.; Skokic, S.; Maci, S.; Sørensen, S.

\* Department of Information Engineering University of Siena, Siena (Italy)

\*\* Faculty of Electrical Engineering and Computing, Zagreb (Croatia)

\*\*\* TICRA, Denmark

## PROPAGATION

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**First Award-** *An Experiment and Preliminary Results for Narrow- and Wideband Land Mobile Satellite Propagation at K-band*

Schönhuber, M.; Teschl, F.; Hovinen, V.; Kyröläinen, J.; Pérez-Fontán, F.; Prieto-Cerdeira, R.

\* *Joanneum Research, Institute of Applied Systems Technology, Austria,*

+ *Centre for Wireless Communications, University of Oulu, Finland*

# *University of Vigo, Spain*

† *European Space Agency, ESTEC, Noordwijk, The Netherlands*

**Honorable Mention-** *Analysis of the Effects from Lateral Variations of Irregular Terrain Based on a Three-dimensional Parabolic Equation*

Nunes da Silva, M. A.; Costa, E; Liniger, M.

\* *Centro de Estudos de Telecomunicações, Pontifícia Universidade Católica do Rio de Janeiro (Brazil)*

\*\* *LiniKomm GmbH, CH-3012 Bern, Switzerland*

**Honorable Mention-** *Radiotransparent Building Materials*

Dubrovka, R.; Belov, P

*School of Electronic Engineering and Computer Sciences, Queen Mary University of London, UK*