

Past EuMC Prize

Winners

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2015 [Paris](#), H. Zargar, A. Banai, J.C. Pedro:

DIDO Behavioral Model Extraction Setup Using Uncorrelated Envelope Signals

2014 [Rome](#), C. Jany, A. Siligaris, P. Ferrari, P. Vincent:

A Novel Programmable Harmonic Selection Technique Based on the Pseudo-Locking of an Oscillator by Periodically Repeated Oscillations Train

2013 [Nuremberg](#), E. Topak, J.-Y. Choi, T. Merkle, S. Koch, S. Saito, C. Landesberger, R. Faul, K. Bock:

Broadband Interconnect Design for Silicon-Based System-in-Package Applications up to 170GHz

2012 [Amsterdam](#), V. Carrubba, S. Maroldt, M. Musser, H. Walcher, M. Schlechtweg, R. Quay, O.

Ambacher:

Dual-Band Class-AB₁ AlGaIn/GaN High Power Amplifier

2011 [Manchester](#), F.J. Schmuckle, R. Doerner, G.N. Phung, W. Heinrich, D. Williams, U. Arz:

Radiation, Multimode Propagation, and Substrate Modes in W-Band CPW Calibrations

2010 [Paris](#), E. Öjefors, F. Pourchon, P. Chevalier, U. R. Pfeiffer:

A 160-GHz Low-Noise Downconverter in a SiGe HBT Technology

2009 [Rome](#), A. Gaebler, F. Goelden, A. Manabe, M. Goebel, S. Meuller, R. Jakoby:

Investigation of High Performance Transmission Line Phase Shifters Based on Liquid Crystal

2008 [Amsterdam](#), Y. Yashchyshyn, K. Derzakowski, J. Modelski:

Extending Functionalities of Waveguide Slot Antennas by Means of Reconfigurable Aperture

2007 [Munich](#), L. A. Greda, A. Dreher:

Tx-Terminal Phased Array for Satellite Communication at Ka-band

2006 [Manchester](#), T. Nagatsuma, H. Ito, K. Iwatsuki:

Generation of Low-phase Noise and Frequency-tunable Millimeter-terahertz-waves Using Optical Heterodyning Techniques with Uni-traveling Carrier Photodiodes

2005 [Paris](#), H. Murata, K. Kaneda, A. Enokihara et al. :

38 GHz Signal Optical Fiber Transmission Using Guided-Wave Electrooptic Single-Sideband Modulators with Polarization Reversals

2004 [Amsterdam](#), S. Masuda, H. Kira, and T. Hirose:

110-GHz high-gain flip-chip InP HEMT amplifier with resin encapsulation on an organic substrate

2003 [Munich](#), I. Gresham, A. Jenkins:

A fast switching, high isolation, miniature absorptive SPST for 24 GHz

2002 [Milan](#), W. Menzel, A. Al-Tikriti, R. Leberer:

A 76-GHz multiple-beam planar reflector antenna

2001 [London](#), I. Rolfes, T. Musch, B. Schick:

A highly linear digital detector for noise parameter measurements at microwave frequencies

2000 [Paris](#), H. Kamitsuna, Y. Matsuoka, S. Yamamhata, N. Shigekawa:

A 82-GHz-optical gain-cutoff- frequency InP/InGaAs double-hetero-structure phototransistor (DHPT) and its application to a 40-GHz-band OEMMIC

1999 [Munich](#), T. Hiratsuka, T. Sonoda, S. Mikami, K. Sakamoto, and Y. Takimoto:

A Ka-band diplexer using planar TE mode dielectric resonators with plastic package

1998 [Amsterdam](#), O. Wohlgemuth, B. Agarwal, R. Pulella, D. Mensa, Q. Lee, J. Guthrie, M.J.W. Rodwell, R.

Reuter, J. Braunstein, M. Schlechtweg, T. Krems, and K. Köhler:

A NLTL-based integrated circuit for a 70-200 GHz VNA system

1997 [Jeruzalem](#), Y. Sun, M. de Kok, J.L. Tauritz, and R.G.F. Baets:

2~3 GHz silicon MMIC balanced oscillators using on-chip active resonators

1997 [Jeruzalem](#), A.B. Kozyrev, V.N. Osadchy, M.M. Gaidukov, A.S. Pavlov, V. Meerovich, S. Sokolovsky:

Transmitter-receiver switch based on high-T_c superconducting film

1996 [Prague](#), M. Vossiek, P. Heide, M. Nalezinski, V. Mágori:

Novel FMCW radar system concept with adaptive compensation of phase errors

1995 [Bologna](#), F. Filicori, G. Vannini, A. Santarelli, D. Torcolacci, V.A. Monaco:

Accurate prediction of intermodulation distortion in GaAs MESFETs

1994 [Cannes](#), L. Mullen, A. Vieira, P.R. Herczfeld, V.M. Contarino:

Experimental and theoretical analysis of a microwave-modulated lidar system

1994 [Cannes](#), S.L. Delage, D. Floriot, H. Blanck, S. Cassette, E. Chartier, M.A. diForte-Poisson, C. Brylinski,

Y. Perreal, D. Pons, P. Roux, P. Bourne, P. Chaumas :

Power GaInP/GaAs HBT MMICs

[1993 Madrid](#), G. David, S. Redlich, W. Mertin, R.M. Bertenburg, S. Koßlowski, F.J. Tegude, E. Kubalek, D. Jäger:

Two dimensional direct electro optic field mapping in a monolithic integrated GaAs amplifier

[1992 Helsinki](#), M. Hallikainen, and M. Toikka:

Classification of sea ice types with radar

[1991 Stuttgart](#), W. Konrath:

Fully integrated 18-20GHz phase-locked DRO signal source for digital radio systems using chip and wire technology

[1990 Budapest](#), M. Weiss, Geok Ing Ng, and D. Pavlidis:

InP based monolithic integrated HEMT amplifiers and their material sensitivity

[1989 London](#), R.C. Brown, P.J.B. Clarricoats, Z. Hai:

The performance of a prototype reconfigurable mesh reflector for spacecraft antenna applications

[1988 Stockholm](#), G. Splitt:

Rectangular electromagnetically coupled microstrip antennas in multilayered structures

[1987 Rome](#), G.P. Donzelli, C. Angione, M. Cipelletti, P. Mengoni, E. M. Bastida:

Very high performance GaAs microwave MESFET power devices

[1986 Dublin](#), A. Daryoush, P. Herczfeld, A. Rosen, V. Contarino, Z. Turski, P. Wahi:

Optical beam control of millimeter wave phased array antennas for communications

[1985 Paris](#), A.Bert, F. Farzaneh, P. Guillon, N. Mamodaly, J. Obregon:

A fundamental mode InP Gunn dielectric resonator oscillator at 94 GHz

[1984 Liège](#), E Kuhn, G Philippou:

Fully computer-optimized design of circular corrugated horns

[1984 Liège](#), E. Kuhn, B.K. Watson:

Rectangular corrugated horns - analysis, design and evaluation

[1983 Nuremberg](#), J.C. Bolomey, M. Gautherie, J.L. Guerquin-Kern, A. Izadneghadar, L. Jofre, Y.C. Michel, G. Peronnet, C. Pichot, C. Szeles

A microwave diffraction tomography system for biomedical applications

[1982 Helsinki](#), E. Kollberg, L. Olsson, S. Rudner:

A very low noise quasi-particle (SIS) mixer receiver for radio astronomical applications

1981 [Amsterdam](#), J. Arnold, R. Butlin:

Extended frequency range GaAs MESFETs using 0.30 μm gate

1980 [Warszawa](#), R. Knoechel, A. Schlegel:

Octave-band double balanced integrated fin-line mixers at mm-wavelengths

1979 [Brighton](#), R.S. Pengelly:

A broad band frequency discriminator using a dual gate GaAs field effect transistor

1978 [Paris](#), G.T. Wrixon:

A superheterodyne receiver from 350-400 GHz

1977 [Copenhagen](#), T. Paukner, B. Schiek, W. Schilz:

A microwave spectrometer - suitable for gas analysis in industrial applications