

Past EuMC Prize Winners

EuMA

European
Microwave
Association

- 2023 Berlin**, J. Dittmer, J. Tebart, C. Füllner, C. Koos, A. Stöhr
200 Gbit/s Wireless THz Transmission over 52m using Optoelectronic Signal Generation
- 2022 Milan**, E. Bekker, A. Bhutani, L. Giroto de Oliviera, T. Antes, T. Zwick
Differential Split-Ring Resonator Based Antenna at 140 GHz in Embedded Wafer Level Ball Grid Array Technology
- 2021 London**, Y. Mohammadi Qaragoez, S. Pollin, D. Schreurs:
FDD for Low Power Backscattering in Batteryless Sensor Nodes"
- 2020 Utrecht**, M. Hietanen, J. Rusanen, J.P. Aikio, N. Tervo, T. Rahkonen, A. Parssinen:
KA-Band TDD Front-End with Gate Shunt Switched Cascode LNA and Three-Stack PA on 22 nm FDSOI CMOS Technology
- 2019 Paris**, A. Bhutani, B. Goettel, M. Pauli, T. Zwick :
122 GHz FMCW Radar System-in-Package in LTCC Technology
- 2018 Madrid**, K. Murata, T. Mitomo, M. Higaki, K. Onizuka:
A 5.8 – GHz 64-Channel Phased Array Microwave Power Transmission System Based on Space-Time Beamforming Algorithm for Multiple IoT Sensors
- 2017 Nuremberg**, P. Pursula, A. Lamminen, M. Kantanen, J. Saarilahti, and V. Ermolov:
Sub-THz Micromachined Waveguides for Wafer Level Integration of MMICs
- 2016 London**, S.K. Podilchak, S.F. Mahmoud, A.P. Freundorfer, and Y.M. Ma Antar:
New Planar Microwave Devices and Antennas by Practical Surface-Wave Launching
- 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-ABJ AlGaN/GaN High Power Amplifier
- 2011 Manchester**, F.J. Schmucke, 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. Modelska:
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. Rolfs, 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. Pullela, 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-Tc 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. Cipolletti, 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. Wahí:
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. Izadnegahdar, 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

