



Synergy of RF and IC Technologies

Call for Participation

IEEE International Symposium on RF Integration Technology
December 9 – 11, 2009
Grand Copthorne Waterfront Hotel Singapore

The IEEE International Symposium on Radio-Frequency Integration Technology (RFIT) 2009 organized by the IEEE MTT-S (Microwave Theory and Techniques Society) and SSCS (Solid-State Circuits Society) is an exciting and informative technical event for global Microwave and Microelectronics community from both industry and academy. The event will be held in Singapore from December 9 to 11, 2009 (www.ieee-rfit.org).

The program consists of one plenary session, two parallel sessions and two interactive forums. The plenary session features two keynotes from internationally renowned speakers on the "Technology and Techniques Trends in RF Integration" and "RF MEMS Integration Present and Future Trends". In the two parallel sessions, there are 19 invited papers from the experts in the field, together with 37 contributed papers, covering wide range of the topics, including

- GPS and Transceivers
- SiP and 60 GHz Circuits
- Synthesizers
- New Trends in RF Passives
- Advanced RFIC Techniques
- Integrated Antennas
- VCO and PLL
- Power Amplifiers
- mmWave Circuits
- RF MEMS and Device Modeling
- Analog and Mixed-Signal Circuits
- Advanced Filter Techniques

In addition, two interactive forums, consisting of 36 posters, allow the participants to interact with each other and exchange information.

[Register Now at http://www.ieee-rfit.org/registration](http://www.ieee-rfit.org/registration)

Renown Keynote Addresses:



" Technology and Techniques Trends in RF Integration "

Prof. Asad A. Abidi ,
UCLA, USA



" RF MEMS Integration Present and Future Trends "

Dr. Dennis Polla,
Defense Advanced Research Projects
Agency (DARPA), USA



www.ieee-rfit.org



Invited Speakers:



Dr. Walid Y. Ali-Ahmad,
MediaTek Singapore,
Singapore
"Design Challenges for a
High Performance HSDPA
RF Transceiver IC"



Prof. Chun-Huat Heng
National University of
Singapore, Singapore
"Techniques for Improving
CMOS VCO Performance"



Prof. James C. M. Hwang
Lehigh University, USA
"Robust RF MEMS Switches
and Phase Shifters for
Aerospace Applications"



Prof. Tatsuo Itoh,
University of California, Los
Angeles, USA
"Dispersion Engineering with
CRLH Metamaterials".



Prof. Zhewang Ma,
Saitama University, Japan
"New Progress in the
Development of Compact
High-Performance
Microwave UWB Filters"



Prof. Franco Maloberti,
University of Pavia, Italy
"Time Variant Digital Sigma-
Delta Modulator for Fractional-N
Frequency Synthesizers"



Dr. Linus Maurer,
Infineon, DICE, Linz, Austria
"Adaptive CMOS-Based RF
Transceivers – State-of-the-
art and Future Trends"



Prof. Wai Tung Ng,
University of Toronto,
Canada
"Digitally Controlled
Integrated DC-DC
Converters with Fast
Transient Response"



Prof. Kenneth O.,
University of Texas, Dallas,
USA
"Antennas in Silicon Integrated
Circuits"



Dr. Chul Soon Park,
Korea Adv Inst of Sci & Tech
(KAIST), Korea
"A Low Power CMOS
Single-chip Receiver and
SoP for 60GHz mobile
applications"



Prof. Patrick Reynaert,
Katholieke Universiteit
Leuven, Belgium
"CMOS RF PA design:
can complexity solve the
linearity and efficiency
trade-off?"



Prof. Almudena Suarez
University of Cantabria,
Spain
"Stability Analysis of Power
Amplifiers"



Prof. Manos M. Tentzeris
Georgia Institute of
Technology, USA
"Organic and Ceramic SoP
Solutions and Modules for
mmW applications"



Dr. Takayuki Umaba
ATR Wave,
Japan
"R&D on Millimeter Wave
Multi-Gigabit Wireless
LAN System"



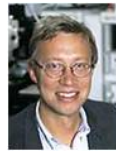
Prof. Ziliang Wang
Nanjing Electronics Device
Institute, China
"LTCC-based Substrate Layout
and its Process Characteristics
of Microwave Modules"



Prof. Ke Wu
University of Montreal,
Canada
"Substrate Integrated
Circuits (SICs) for
Microwave and Millimeter-
wave Systems and Applications"



Dr. Yuepeng Yan
Microelectronics of
Chinese Academy of
Sciences, China
"GPS system"



Prof. Herbert Zirath,
Chalmers University of
Technology, Sweden
"Integrated receivers up to 220
GHz utilizing GaAs-mHEMT
technology"



Prof. Tadahiro Kuroda,
Keio University, Japan,
"Inductive coupling
transceivers for inter-chip
data communication"

Four In-Depth Tutorials



**"Trends in Contemporary Wireless
Transceivers"**
Prof. Asad Abidi
University of California, Los Angeles, USA



**"Power management for portable
Microsystems"**
Prof. Franco Maloberti
University of Pavia, Italy



**"mm-Wave and broadband techniques:
Amplifiers, VCOs, frequency dividers and
other frontend blocks"**
Prof. Jri Lee
National Taiwan University, Taiwan.



"Low voltage RF frequency synthesizers"
Prof. Howard Luong
Hong Kong University, Hong Kong.