



**RF Integration for Health Care and Sustainable
Environment**



Call for Participation



The 2011 IEEE International Symposium on Radio-Frequency Integration Technology (RFIT2011, www.ieee-rfit.org) is co-sponsored by Tsinghua University, the IEEE Microwave Theory and Techniques Society, and the IEEE Solid-State Circuits Chapters in Beijing and Singapore. It provides a forum for integrated circuit and technology communities to meet and present the latest developments in integrated circuit design and system integration, with emphasis on wireless communication systems and emerging applications such as biology and healthcare. This year's theme is **RF Integration for Health Care and Sustainable Environment**.

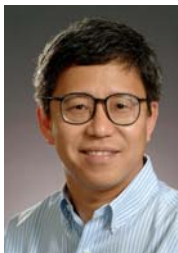
The exciting technical program consists of one plenary session, twelve parallel sessions, and one poster session. The plenary session features two keynotes on the "**Sub-Millimeter Wave CMOS Integrated Circuits and Systems**" and "**Digital RF and Digitally-Assisted RF**". In addition to four in-depth tutorials, there will be two special sessions on "**Wireless I/Os**" and "**Data Converters**", and there will be invited talks from distinguished speakers from around the world. Moreover, one interactive forum is also organized to allow participants to interact with authors.

[Registration at: http://ieee-rfit.org/registration](http://ieee-rfit.org/registration)

[Advanced Program at: http://www.ieee-rfit.org/files/Technical_Program_RFIT2011.pdf](http://www.ieee-rfit.org/files/Technical_Program_RFIT2011.pdf)

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Keynote Addresses:



**"Sub-Millimeter Wave CMOS
Integrated Circuits and
Systems"**

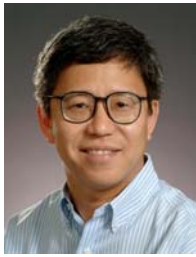
Prof. Kenneth K. O
University of Texas, USA



**"Digital RF and
Digitally-Assisted RF"**

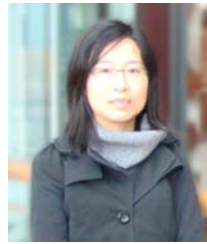
Prof. R. Bogdan Staszewski
Delft University, Netherlands

In-Depth Tutorials:



“Implementation Considerations for CMOS mm Wave Circuits and Systems”

Prof. Kenneth K. O
University of Texas, USA



“Wireless Power Transfer for Bio-Implants”

Prof. Ada Poon
Stanford University, USA



“Digital RF Architectures for Wireless Transceivers”

Prof. R. Bogdan Staszewski
Delft University, Netherlands



“Wireless Design for Medical Applications”

Prof. Hoi-Jun Yoo
KAIST, Korea

Invited Talks:

Wei-Zen Chen, NCTU, Taiwan - “[Spur Suppression Technique for Multiplied Delay Locked Loop](#)”

Christian Enz, CSEM, Switzerland - “[A MEMS-based 2.4-GHz Sub-sampling RF Front-end for Advanced Healthcare Applications](#)”

Frank Henkel, IMST, Germany - “[Trends in Low Power Frontend Development for IEEE 802.15.4/ZigBee](#)”

James Hwang, Lehigh U., USA - “[Scaling and High-Frequency Performance of AlN/GaN HEMTs](#)”

Shuo-Hung Hsu, National Tsinghua U., Taiwan - “[CMOS Broadband Amplifiers for Optical Communications and Optical Interconnects](#)”

Akira Matsuzawa, Tokyo Tech, Japan - “[Short Range and Long Range Millimeter Wave Systems and RF/BB SoCs](#)”

Nagata Makoto, Kobe U., Japan - “[Evaluation of Substrate Noise Coupling in RFICs](#)”

Woogeun Rhee, Tsinghua U., China - “[Fractional-N Frequency Synthesis: Overview and Design Perspectives](#)”

Special Session I - “Wireless Replacement of Wireline I/Os”:

Byungsoo Jung, Patrick Yue, et al. – “[Trends and Outlook of Wireless I/O’s for Short-Range Connectivity and Beyond](#)”

Tadahiro Kuroda, et al. – “[Proximity IOs using Inductive Coupling](#)”

Ron Ho, et al. – “[System Considerations for Wireless Capacitive Chip-to-Chip Signaling](#)”

Frank Chang, et al. – “[Wireline/Wireless RF-Interconnect for Future SoC](#)”

Patrick Chiang, et al. – “[Design Challenges for Ultra-Wideband Wireless Communications within a Computer Chassis](#)”

Special Session II - “Data Converters”:

R. P. Martins, et al. - “[Design Techniques for Nanometer Wideband Power-Efficient CMOS ADCs](#)”

Junyan Ren, et al. - “[A 1.0GS/s 7bit Pipelined-Folding-Interpolating ADC with 6.0 ENOB at Nyquist Frequency](#)”

Tai-Cheng Lee, et al. - “[A 10-bit 400MS/s 30mW Interleaved ADC](#)”

SeongHwan Cho, et al. - “[Time-interleaved Single-slope ADC using Counter-based Time-to-Digital Converter](#)”

Zhihua Wang, et al. - “[Analysis and Simulation of a 2nd-order \$\Delta \Sigma\$ Modulator with Single-Comparator Multi-Bit Quantizer](#)”