2012 ISSCC Distinguished Technical Paper

“A Blocker-Tolerant Wideband Noise-Cancelling Receiver with a 2dB Noise Figure”

David Murphy$^{1,2}$, Amr Hafez$^{1,2}$, Ahmad Mirzaei$^{2}$, Mohyee Mikhemar$^{2}$, Hooman Darabi$^{2}$, Mau-Chung Frank Chang$^{1}$, Asad Abidi$^{1}$

$^{1}$University of California, Los Angeles, Los Angeles, CA $^{2}$Broadcom, Irvine, CA

2012 ISSCC Award for Distinguished Technical Paper

“A 280mV-to-1.1V 256b Reconfigurable SIMD Vector Permutation Engine with 2-Dimensional Shuffle in 22nm CMOS”

Steven Hsu, Amit Agarwal, Mark Anders, Sanu Mathew, Himanshu Kaul, Farhana Sheikh, Ram Krishnamurthy

Intel, Hillsboro, OR

2011 Lewis Winner Award for Outstanding Paper


Albert Wang, Patrick R. Gill, Alyosha Molnar

Cornell University, Ithaca, NY

2011 Jan Van Vessem Award for Outstanding European Paper

“A 4GHz CT DS ADC with 70dB DR and -74dBFS THD in 125MHz BW”

Muhammed Bolatkale$^{1}$, Lucien J. Breems$^{1}$, Robert Rutten$^{1}$, Kofi A.A. Makinwa$^{2}$

$^{1}$NXP Semiconductors, Eindhoven, The Netherlands $^{2}$Delft University of Technology, Delft, The Netherlands

2011 ISSCC Award for Outstanding Forum Presenter

“Current-Steering DACs for Direct RF Transmission”
Klaas Bult

Broadcom, Bunnik, The Netherlands

2011 Evening Session Award

“Future System and Memory Architectures: Transformations by Technology and Applications”

Co-Organizer Chair:
Nicky Lu, Etron Technology, Hsinchu, Taiwan

Co-Organizers:
Leland Chang, IBM, Yorktown Heights, NY
Daisaburo Takashima, Toshiba, Yokohama, Japan

Speakers:
Jim Kahle, Austin, TX
Stephen Pawlowski, Intel, Hillsboro, Japan
Tomofumi Shimada, Toshiba, Tokyo, Japan
Raj Talluri, Qualcomm, San Diego, CA

2012 ISSCC Silkroad Award

“A 15mW 3.6GS/s CT-DS ADC with 36MHz Bandwidth and 83dB DR in 90nm CMOS”

Pradeep Shettigar

IIT Madras, Chennai, India

“An 800MHz 320mW 16-Core Processor with Message-Passing and Shared-Memory Inter Core Communication Mechanisms”

Ruijin Xiao

Fudan University, China