

2011 ISSCC Distinguished Technical Paper

“Filterless Integrated Class-D Audio Amplifier Achieving 0.0012% THD+N and 96dB PSRR When Supplying 1.2W”

Mykhaylo Teplechuk, Anthony Gribben, Christophe Amadi

Dialog Semiconductor, Edinburgh, Scotland

2010 Lewis Winner Award for Outstanding Paper

“A 45nm SOI Embedded DRAM Macro for POWER7 32MB On-Chip L3 Cache”

John Barth¹ Don Plass², Erik Nelson¹, Charlie Hwang², Gregory Fredeman², Michael Sperling², Abraham Mathews², William Reohr⁴, Kavita Nair², Nianzheng Cao²

¹IBM, Essex Junction, VT

²IBM, Poughkeepsie, NY

³IBM, Austin TX

⁴IBM T.J. Watson, Yorktown Heights, NY

2010 Jack Kilby Award for Outstanding Student Paper

“A 90GHz-Carrier 30GHz-Bandwidth Hybrid Switching Transmitter with Integrated Antenna”

Amin Arbabian¹, Bagher Afshar¹, Jun-Chau Chien¹, Shinwon Kang¹, Steven Callendar¹, Ehsan Adabi², Stephano Dal Toso², Romain Pilard³, Daniel Gloria³, Ali Niknejad¹

¹University of California, Berkeley CA

²University of Padova, Padova, Italy

³ST Microelectronics, Crolles, France

2010 Jack Raper Award for Outstanding Technology-Directions Paper

“Demonstration of Integrated Micro-Electro-Mechanical Switch Circuits for VLSI Applications”

Fred Chen¹, Matthew Spencer², Rhesa Nathanael², Chengcheng Wang³, Hossein Fariborzi¹, Abhinav Gupta², Hei Kam², Vincent Pott², Jaeseok Jeon², Tsu-Jae King Liu², Dejan Markovic³, Vladimir Stojanovic¹, Elad Alon²

¹Massachusetts Institute of Technology, Cambridge, MA

²University of California, Berkeley, CA

³University of California, Los Angeles, CA

2010 Jan Van Vesseem Award for Outstanding European Paper

“Design Issues and Considerations for Low-Cost 3D TSV IC Technology”

Geert Van der Plas¹, Paresh Limaye¹, Abdelkarim Mercha¹, Herman Oprins¹, Cristina Torregiani¹, Steven Thijs¹, Dimitri Linten¹, Michele Stucchi¹, Katti Guruprasad¹, Dimitrios Velenis¹, Domae Shinichi², Vladimir Cherman¹, Bart Vandeveldel¹, Veerle Simons¹, Ingrid De Wolf¹, Riet Labie¹, Dan Perry³, Stephane Bronckers¹, Nikolas Minas¹, Miro Cupac¹, Wouter Ruythooren¹, Jan Van Olmen¹, Alain Phommahaxay¹, Muriel de Potter de ten Broeck¹, Ann Opdebeeck¹, Michal Rakowski¹, Bart De Wachter¹, Morin Dehan¹, Marc Nelis¹, Rahul Agarwal¹, Wim Dehaene⁴, Youssef Travaly¹, Pol Marchal¹, Eric Beyne¹

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³Qualcomm, Leuven, Belgium

⁴K.U. Leuven, Leuven, Belgium

2010 ISSCC Award for Outstanding Forum Presenter

“Substrate Noise: A Few Observations”

Marcel J.M. Pelgrom, with Jacob Bakker, Sergei Kapora

NXP Semiconductors, Eindhoven, The Netherlands