Program for the 6th IEEE Dallas/CAS Workshop (DCAS-07)

System-on-Chip (SoC): Applications, Integration, Implementation and Software

THURSDAY NOVEMBER 15, 2007

7:30-8:30 AM 8:30 AM	Poster Setup Opening Remarks	
8:40 AM	Keynote Address : Si Technology Roadmap For Ubiquitous Computing, Sensing, and Perception Dr. Dennis Buss Texas Instruments, Dallas, TX, U.S.A.	
10:10 AM	BREAK	
10:30 AM	Invited Talk 1: Making Better Use of Time in Mixed-Signal Circuits Prof. Michael Perrott Massachusetts Institute of Technology (MIT), U.S.A.	
12:00 PM	LUNCH	
1:30 AM	Invited Talk 2: Reconfigurable ADC Dr. Kush Gulati Bitwave Semiconductor, U.S.A.	
3:00PM	Linearization of Highly-Efficient Monolithic Class E SiGe Power Amplifiers with Envelope- Tracking (ET) Donald Y.C. Lie, J.D. Popp*, F. Wang*, D. Kimball*, and L.E. Larson* Texas Tech University, *University of California, San Diego (UCSD), U.S.A.	
3:20 PM	Architecture Optimization of a Finite Impulse Response Filter Using Toggle-based Power Estimation Albina Cristian, Günther Hackl GME mbH, Germany	
3:40 PM	BREAK	
THURSDAY POSTERS		
3:40 PM	On-Chip RLC Interconnection effects on High Speed Transceivers Albina Cristian, Günther Hackl GME mbH, Germany	
	"Flying-Adder" PLL Based Synchronization Mechanism for Data Packet Transport Liming Xiu, Steve Clynes, Srikanth Gurrapu, Towfique Haider, Feng Ying, Wahed Mohammed Texas Instruments Inc., U.S.A.	
	SYSTEM-ON-CHIP POWER CONSUMPTION REFINEMENT AND ANALYSIS David Feinstein, Mitch Thornton, Fatih Kocan Southern Methodist University, U.S.A.	
	A High-Performance Multi-Match Priority Encoder for TCAM-Based Packet Classifiers Mehrdad Nourani University of Texas at Dallas, U.S.A.	
	An Efficient Implementation of Scalable Architecture for Discrete Wavelet Transform On FPGA Hassan,RABAH, Michael Guarisco, Xun Zhang, Serge Weber Nancy University, France	
	A New Fast Slew Buffering Algorithm Without Input Slew Assumptions Shiyan Hu, Jiang Hu Texas A&M University, U.S.A.	
	Closed form Equations for Inter-modulation Distortion Parameters in WCDMA Receiver Validated Through Measurements	
	Mohammed Saif Khan and Naveen K. Yanduru* Texas Instruments, Bangalore, India. *Texas Instruments, Dallas, TX, USA.	
	A CMOS Wideband LNA Using Multiple Phase Matched Frequency Staggered Resonators Diptendu Ghosh, Ranjit Gharpurey University of Texas, Austin, U.S.A.	
5:00 PM	Poster Removal	

5:00 PM Refreshments

FRIDAY, NOVEMBER 16, 2007

7:30-8:50 AM	Poster Setup
8:50AM	Invited Talk 3: Verification of Complex Analog Integrated Circuits Dr. Ken Kundert Designers-Guide Consulting, U.S.A.
10:20AM	BREAK
10:40AM	Analysis of Third-order Intermodulation in Receiver Down-converter with Multiband Feedback Junghwan Han and Ranjit Gharpurey University of Texas, Austin, U.S.A.
11:00 AM	Enhancement of Coexistence Performance in a DRP Based Multi-Radio Environment of a Mobile Yossi Tsfati, Oren Eliezer, Ran Katz, Yaniv Tzoref, and Ofer Friedman Texas Instruments Inc., Wireless Terminals Business Unit, Raanana, Israel.
11:20 AM	Waveform Analysis and Delay Prediction in Simultaneously Switching CMOS Gate Driven Inductively and Capacitively Coupled On-Chip Interconnects B.K.Kaushik, S.Sarkar*, R.P.Agarwal and R.C.Joshi Indian Institute of Technology-Roorkee, *MITS-Sikar, INDIA
11:40 AM	Design of a Multi-Context FPVLSI based on an Asynchronous Bit-Serial Architecture Waidyasooriya Hasitha Muthumala, Masanori Hariyama and Michitaka Kameyama Tohoku University, Japan
12:00pm	LUNCH
1:30 PM	Invited Talk 4: Cognitive Radio Prof. Bora Nikolic University of California, Berkeley, U.S.A.
3:00PM	A Practical Step Forward Toward Software-Defined Radio Transmitters Essam Atalla , Imran Bashir*, Poras Balsara , Kamran Kiasaleh , Robert Bogdan Staszewski*, University of Texas at Dallas, *Texas Instruments Inc., U.S.A.
3:20PM	Dual-Threshold Voltage Technique for Asynchronous PCFB Linear-Pipelines Behnam Ghavami, Hossein Pedram Amirkabir University of Technology, Tehran, Iran
3:40PM FRIDAY POS	BREAK STERS
2:30PM	A Technique to Extend Tuning Range of High Frequency Quadrature VCO Diptendu Ghosh, Ranjit Gharpurey University of Texas, Austin, U.S.A.
	Top-Down Simulation Methodology of a Mixed-Signal Read Channel Using Standard VHDL Robert Staszewski Texas Instruments, Dallas, U.S.A.
	Modeling of an Electronic Noise and Media in a Magnetic Recording Read Channel Using VHDL Robert Staszewski Texas Instruments, Dallas, U.S.A.
	PID-CONTROLLED PLL FOR FAST FREQUENCY-HOPPED SYSTEMS Nil Tarim, Hayri Uyanik Istanbul Technical University, Turkey
	Optimum Designing of the Cascaded Digital Filters in Wide-band Wireless Transmitters using Genetic Algorithm Viral Parikh, Sankalp Modi , Poras Balsara University of Texas at Dallas, U.S.A.
	A 400MHz-2.4Ghz Radiation-Tolerant Self-Biased Phase-Locked Loop P. Zhu, P. Gui, W. Chen, A.Xiang, D. Gong, A.Liu, R. Stroynowski,J.Ye,Y.Fan*, H.Huang*, M. Mor Southern Methodist University, *Texas Instruments Inc. U.S.A.
	A Speed- and Accuracy-Enhanced On-Chip Current Sensor with Local Shunt Feedback Hoi Lee, Mengmeng Du University of Texas at Dallas, U.S.A.