DAC/ISSCC 2004 Student Design Contest Winners

Operational Category:

1st Place (Best Overall)  
A Single Chip Ultra-Wideband Transceiver  
Fred S. Lee, Anantha P. Chandrakasan, Raúl Blázquez - Massachusetts Institute of Tech., Cambridge, MA  
Puneet P. Newaskar – Silicon Labs., Inc., Austin, TX

2nd Place  
81 MS/s JPEG 2000 Single-Chip Encoder with Rate-Distortion Optimization  
Hung-Chi Fang, Yu-Wei Chang, Liang-Gee Chen – National Taiwan Univ., Taipei, Taiwan

3rd Place (tie)  
An 80Gbps FPGA Implementation of a Universal Hash Function Based Message Authentication Code  
Bo Yang, Ramesh Karri – Polytechnic Univ., Brooklyn, NY  
David A. McGrew – Cisco Systems, Inc., San Jose, CA

3rd Place (tie)  
A Modular 32-Site Wireless Neural Stimulation Microsystem  
Maysam Ghovanloo, Khalil Najafi – Univ. of Michigan, Ann Arbor, MI

Conceptual Category:

1st Place  
The Economical Aphotic Sieving Machine  
Kamran Kashef, Matt Hardy – Univ. of Michigan, Ann Arbor, MI

2nd Place  
VIRAM1: A Media_Oriented Vector Processor with Embedded DRAM  
Joseph Gebis, Sam Williams, David Patterson – Univ. of California, Berkeley, CA  
Christos Kozyrakis - Stanford Univ., Palo Alto, CA

3rd Place  
SiGe Prototype Chip Design Implementing CMOS Fixed Bit-Load Drivers and Receivers for Next Generation High-Speed Board-Level Interconnect  
Jason D. Bakos, Amit Gupta, Leo Selavo, Donald Chiarulli – Univ. of Pittsburgh, Pittsburgh, PA

ACM Transaction on Design Automation of Electronic Systems (TODAES)  
2004 Best Paper Award  
Viktor S. Lapinskii, Margarida F. Jacome, Gustavo A. DeVeciana - Univ. of Texas, Austin, TX  
Cluster Assignment for High-Performance Embedded VLIW Processors  

The Association for Computing Machinery/Special Interest Group on Design Automation (ACM/SIGDA) presents its Distinguished Service Award  
James P. Cohoon - Univ. of Virginia, Charlottesville, VA  
For exemplary service to SIGDA, to ACM, to DAC, and to the EDA profession as a whole.

2003 Phil Kaufman Award for Distinguished Contributions to EDA  
A. Richard Newton - Dean of the College of Engineering, Univ. of California, Berkeley, CA  
Professor Newton's contributions to advancing the EDA industry are numerous and significant, directly impacting the success of our users - electronic designers," remarked Walden C. Rhines, EDA Consortium Chairman and Chairman and CEO of Mentor Graphics Corp. "Richard has been a visionary and catalyst for advancing our industry in his role as mentor, educator, researcher and entrepreneur.”