

ASP-DAC 2000 University LSI Design Contest Awards

Outstanding Design Award

A VLSI Implementation of the Blowfish Encryption/Decryption Algorithm

Michael C.-J.Lin and Youn-Long Lin

(Department of Computer Science, National Tsing Hua University)

Outstanding Design Award presented for the implementation of a high performance cryptographic processor utilizing novel critical path reduction techniques at the logic and architecture levels.

Special Feature Award (Microprocessors/DSP)

An Application Specific JAVA Processor with Reconfigurabilities

Shinji Kimura, Hiyoyuki Kida, Kazuyoshi Takagi, Tatsumori Abematsu and
Katsumasa Watanabe

(Graduate School of Information Science, Nara Institute of Science and Technology)

Special Feature Award presented for incorporating reconfigurability into an embedded Java processor to enable instruction set customizations and facilitate access to external computational resources.

Special Feature Award (Analog / A/D Mixed)

A Smart Imager for the Vision Processing Front-END

Noriaki Takeda, Mitsuru Homma, Makoto Nagata, Takashi Morie and Atsushi Iwata
(Advanced Scientific of Matter, Hiroshima University)

Special Feature Award presented for utilizing novel PWM-based signal processing techniques for front-end processing in a CMOS imager for intelligent vision applications.