Session 34: New Ideas in High Level Synthesis

Chair: David Ku

This session features new ideas in high-level synthesis -- in particular, on pipelining, global scheduling, interface synthesis, design of reliable systems, and constraint specification.

34.1  MIST-A DESIGN AID FOR PROGRAMMABLE PIPELINED PROCESSORS
      Albert E. Casavant

34.2  AUTOMATIC SYNTHESIS OF PIPELINE STRUCTURES WITH VARIABLE DATA
      INITIATION INTERVALS
      Hong Shin Jun, Sun Young Hwang

34.3  GLOBAL SCHEDULING FOR HIGH-LEVEL SYNTHESIS APPLICATIONS
      Yaw Fann, Minjoong Rim, Rajiv Jain

34.4  PROTOCOL GENERATION FOR COMMUNICATION CHANNELS
      Sanjiv Narayan, Daniel D. Gajski

34.5  AREA-EFFICIENT FAULT DETECTION DURING SELF-RECOVERING
      MICROARCHITECTURE SYNTHESIS
      Ramesh Karri, Alex Orailoglu

34.6  THE ATTRIBUTED-BEHAVIOR ABSTRACTION AND SYNTHESIS TOOLS
      Lawrence F. Arnstein, Don Thomas