July 16-17, 2012
Arlington, Virginia

Preliminary Program

Day 1 (July 16)

9:00 Welcome

9:30 Session 1: Performance Analysis

Daniel Holcomb, Alexander Gotmanov, Michael Kishinevsky and Sanjit Seshia. Compositional Performance Verification of NoC Designs


10:30 Coffee Break

11:00 Invited Talk

Yosinori Watanabe (Cadence Design Systems). Clearing the Clutter: Unified Modeling and Verification Methodology for System Level Hardware Design

12:30 Lunch

14:00 Session 2: Test Coverage and Fault Localization

Kai-Hui Chang, Chia-Wei Chang, Jie-Hong Roland Jiang and Chien-Nan Jimmy Liu. Improving Design Verifiability by Early RTL Coverability Analysis


Heinz Riener and Goerschwin Fey. Model-Based Diagnosis versus Error Explanation

15:30 Coffee Break

15:45 Invited Talk

Kathryn Kranen, (Jasper Design Automation). The Future of Verification: A Spiral of Technological and Business Innovation

17:00 Coffee Break

17:15 Invited Tutorial

Fabio Somenzi. Incremental Inductive Verification: IC3 and its Friends

18:30 End of Day 1

19:00 Dinner
Day 2 (July 17)

9:00  Session 3: High-Level Validation I

Yu Bai, Jens Brandt and Klaus Schneider. *Preservation of LTL Properties in Desynchronized Systems*

Samaneh Ghandali, Bijan Alizadeh, Zainalabedin Navabi and Masahiro Fujita. *Polynomial Datapath Synthesis and Optimization Based on Vanishing Polynomial over \( \mathbb{Z}_2^m \) and Algebraic Techniques*

Manuel Gesell and Klaus Schneider. *Interactive Verification of Synchronous Systems*

10:30 Coffee Break

11:00 Invited Talk

Kenneth McMillan (Microsoft). *Symbolic Tools for Program Proving*

12:30 Lunch

14:00 Design Contest

15:00 Coffee Break

15:30 Session 4: High-Level Validation II

Kartik Nagar and Y.N. Srikant. *Interdependent Cache Analyses for better Precision and Safety*

Asif Khan, Muralidaran Vijayaraghavan and Arvind. *A General Technique for Deterministic Model-Cycle-Level Debugging*

Elizabeth Leonard, Myla Archer, Constance Heitmeyer and Ralph Jeffords. *Direct Generation of Invariants for Reactive Models*

17:00 End of Conference