12th International Workshop on
Software & Compilers for Embedded Systems

April 23-24, 2009
Acropolis, Nice, France

Heiko Falk

Co-located with DATE 09
About SCOPES 2009

- 26 submissions in total
- from 12 countries
- in 4 continents (Asia, Europe, N. America, S. America)
- 8 submissions accepted
- Acceptance Rate: 31%

- Highlights: Social event, Keynote talk & TECS Special Issue

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Session 1: Compilation and optimization

Session Chair: Reinhard Wilhelm

- Separate Compilation for Synchronous Programs
  J. Brandt, K. Schneider

- Accelerating WCET-driven Optimizations by the Invariant Path Paradigm – a Case Study of Loop Unswitching
  P. Lokuciejewski, F. Gedikli, P. Marwedel

- Register Allocation Deconstructed
  D. Koes, S. Goldstein
Session 3: Domain-specific languages

Session Chair: Marco Bekooij

- Implementing AUTOSAR Scheduling and Resource Management on an Embedded SMT Processor
  F. Kluge, C. Yu, J. Mische, S. Uhrig, T. Ungerer

- The Canals Language and its Compiler
  A. Dahlin, J. Ersfolk, J. Lilius, H. Habli, G. Yang

- A Design Flow Based on a Domain Specific Language to Concurrent Development of Device Drivers and Device Controller Simulation Models
  E. Lisboa, L. Silva, I. Chaves, T. Lima, E. Barros
Session 4: Validation and verification

Session Chair: Trevor Carlson

- Certifying Deadlock-freedom for BIP Models
  J. O. Blech, M. Perin

- Precise Simulation of Interrupts using a Rollback Mechanism
  F. Brandner