



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