



IBM Haifa Conference – Agenda

PADTAD Conference 2006

July 17, 2006

Session 1: State of Practice

Chair: João Lourenço, Univ. Nova de Lisboa

A State-of-Practice Survey on Verification and Validation for Concurrent Programs
Margaret A. Wojcicki and Paul Strooper, Univ. of Queensland, Australia

Formal Verification of Concurrent Software: Two Case Studies
Hana Chockler, Eitan Farchi, Ziv Glazberg, Benny Godlin, and Yarden Nir-Buchbinder, IBM Haifa Labs, and Ishai Rabinovitz, Mellanox Technologies

A Classification of Concurrency Bugs in Java Benchmarks by Developer Intent
M. Erkan Keremoglu, Serdar Tasiran, and Tayfun Elmas, Koc University, Turkey

Session 2: Stressing Concurrent Programs

Chair: Eitan Farchi, IBM Haifa Labs

Improved Distributed Memory Applications Testing By Message Perturbation
Richard Vuduc, Martin Schulz, Dan Quinlan, and Bronis de Supinski, Lawrence Livermore National Laboratory, and Andreas Sæbjørnsen, University of Oslo

Producing Scheduling that Cause Concurrent Programs to Fail
Yossi Ben Asher, University of Haifa, Yaniv Eytani, University of Illinois, and Eitan Farchi and Shmuel Ur, IBM Haifa Labs

Keynote Address:

Chess: A systematic stress tester for concurrent software

Shaz Qadeer, Microsoft Research

Session 3: Deadlock Detection

Chair: Willem Visser, RIACS/NASA Ames

Invited Talk:

Confirmation of Deadlock Potentials Detected by Runtime Analysis

Saddek Bensalem, Jean Claude Fernandez, and Laurent Mounier, Verimag Laboratory, France, and Klaus Havelund, Kestrel Technology

Run-Time Detection of Potential Deadlocks for Programs with Locks, Semaphores, and Condition Variables

Rahul Agarwal and Scott D. Stoller, State University of New York at Stony Brook

Session 4: Grid and Races

Chair: Klaus Havelund, Kestrel Technology

Multi-Environment Software Testing on the Grid

Alexandre Duarte, Gustavo Wagner, Francisco Brasileiro, Walfredo Cirne, Universidade Federal de Campina Grande, Brazil

A Theory of Data Race Detection
Utpal Banerjee, Brian Bliss, Zhiqiang Ma, Paul Petersen, Intel Software and Solutions Group