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IBM HAIFA LABS

Invitation to IBM's Verification Seminar 2002

September 12, 2002

Organized by IBM Haifa Research Labs, Israel
www.haifa.il.ibm.com\Workshops\verification2002

The Verification Technologies Department at the IBM Haifa Research Lab (HRL) cordially invites you to a full-day seminar on Verification, to be held on Thursday, the 12th of September 2002.
This is the third in a sequence of verification seminars held by HRL since 1999.

The seminar will take place at HRL's new site on the Haifa University campus, HRL's auditorium (room L100), from 9:30 to 17:15. Lunch and light refreshments will be provided. Participation is free.

Please confirm your participation by September 5 via the seminar website:
www.haifa.il.ibm.com\Workshops\verification2002.

9:15 Arrival

9:30 *Welcome*
Yossi Malka, Mgr., Verification Technologies, IBM Haifa Labs

9:45 *Formal Specification Using Sugar* 2.0
Cindy Eisner, IBM Haifa Labs

10:10 *Distributed Symbolic Model Checking*
Tamir Heyman, Technion

10:40 *Full Cycle Functional Coverage: Coverage Success Stories*
Avi Ziv, IBM Haifa Labs

11:05 Break

11:20 *Coverage Directed Test Generation for Functional Verification Using Bayesian Networks*
Shai Fine, IBM Haifa Labs

11:50 *Automatic Discovery of Mutual Exclusion Algorithms*
Yoah Bar-David and Gadi Taubenfeld (speaker), Open University & IDC

12:20 *Verifying the Discovery (TM) System Controllers Family - A Case Study*
Kobi Pines, Galileo Technology

12:50 Lunch

13:50 Keynote: *From Aerospace to C. Elegans: Modeling and Analyzing the Behavior of Complex Reactive Systems*
David Harel, Weizmann Institute of Science

14:40 *Improved Abstraction/Refinement Verification Algorithms with Backtracking and Layering*
Sharon Barner, IBM Haifa Labs

15:10 *Information-flow Models for Shared Memory*
Hagit Attiya, Technion

15:40 Break

16:00 *What's Between Constraint Satisfaction and Random Test Program Generation*
Roy Emek, IBM Haifa Labs

16:30 *Banias - Design and Verification of a Mobile-specific CPU*
Ron Friedman, Intel

17:00 *Concluding Remarks*
Michael Rodeh, Director, IBM Haifa Labs

ORGANIZING COMMITTEE

Moshe Levinger, IBM HRL
Eyal Bin, IBM HRL

Yaron Wolfsthal, IBM HRL