Seventh ACM-IEEE International Conference on
Formal Methods and Models for Codesign
MEMOCODE 2009
July 13-15, 2009
Cambridge, MA, USA
http://csg.csail.mit.edu/Memocode2009/

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Design Contest
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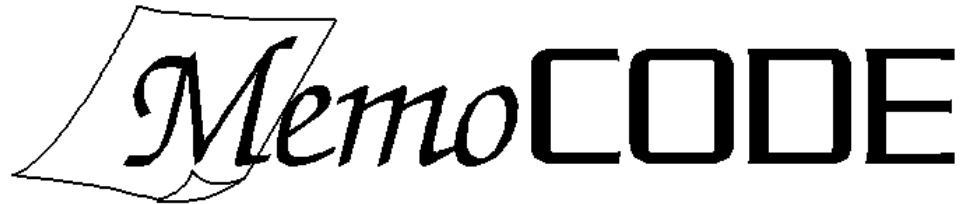Forrest Brewer (UCSB)

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FINAL CALL FOR PAPERS

The seventh MEMOCODE conference will gather researchers and practitioners who create methods, tools, and architectures for hardware/software systems. Modern design faces increased design complexities in combination with tightening implementation constraints. This requires new techniques to create, refine, and verify hardware/software systems. MEMOCODE seeks submissions that present novel formal methods and design techniques to address this design problem. We also invite application-oriented papers, and especially encourage submissions that highlight the design perspective of formal methods and models, including success stories and demonstrations of hardware/software codesign. Furthermore, we invite poster presentations describing ongoing work with promising preliminary results.

Confirmed Keynote Speakers include David Harel (Weizmann), Amir Pnueli (NYU) and Martin Rinard (MIT). The conference includes a tutorial on implementation attacks by Thomas Popp (TU Graz) and a panel on the Future of Design Languages led by Stephen Edwards (Columbia).

Topics of interest for regular submissions include, but are not limited to:

- System-level modeling and verification, abstraction and refinement between different modeling levels, formal, semi-formal, and specification-driven verification on the system level. Transaction-level modeling.

- Design and verification methods for composition of concurrent systems: Multi-core architectures, networks-on-chip.

- Non-traditional and domain-specific design languages for hardware and software, novel models of computation, and new design paradigms that unify hardware and software design.

- System-level estimation of performance and power in heterogeneous hardware/software architectures.

- Applications and demonstrators of formal design methodologies and case studies of innovative system-level design flows.

- Modeling and reuse of intellectual property at system-level.

IMPORTANT DATES:

Submission Website Open:	**30 January 2009**
Paper submission deadline:	**6 March 2009**
Notification of acceptance:	**8 May 2009**
Poster submission deadline:	**15 May 2009**
Notification for Posters:	**29 May 2009**
Final Version for Papers:	**29 May 2009**

PROCEEDINGS: Conference proceedings will be published by the IEEE Computer Society. The best papers will be considered for a special section of IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems.

SUBMISSION: Submissions of research and experience papers will only be accepted through the conference web site. Papers must not exceed 10 pages and must be formatted following IEEE Computer Society guidelines. Submissions must be written in English, describe original work, and not substantially overlap papers that have been published or are being submitted to a journal or another conference with published proceedings. Posters submissions should consist of an abstract of at most 250 words. The abstract will be distributed to the conference attendants, but will not be published. Note that the poster deadline is different from the paper deadline.

Submission Website:

http://www.easychair.org/conferences/?conf=memocode2009

DESIGN CONTEST: MEMOCODE will again have a design contest. The contest will start 1 March 2009. The deadline for submission is 31 March 2009 and the notification of the results is on 8 May 2009.   The conference will sponsor at least two prize categories, each with a significant cash award. We awarded a $1000 prize in each of the three categories in 2008. Each team that submits a complete and working entry will be invited to submit for review a 2-page abstract for the formal conference proceedings; prize winning teams will be invited to contribute a 4-page short paper. Please refer to the conference website for more information and updates.