



IEEE Council on Electronic Design Automation

Presentation: The DATC

The Technical Committee on Design Automation (also known as "DATC") is a constituent part of the IEEE Computer Society and operates under the rules and policies of that society. The DATC is involved with the use of computer-oriented techniques in all aspects of the design process of computer & electronic systems, with particular emphasis on design languages, logic synthesis, verification techniques (including digital simulation), manufacturing interface data, graphics, and database management.

Among others, the main goals of the DATC are to provide a forum for exchange of ideas among interested researchers and developers, to promote and facilitate the sharing of ideas between members, to conduct workshops and meetings for the advance of both the state-of-the-art and the state-of-the-practice, to publish and distribute among its members appropriate material and information, etc.

The DATC has sponsored and co-sponsored various conferences and workshops like the Workshop on High-Level Synthesis, the annual workshop on Electronic Design Processes (EDP), the annual ACM/IEEE International Conference on Computer Aided Design (ICCAD) with ACM SIGDA, and publishes an on-line newsletter quarterly and an off-line newsletter six times a year in the IEEE Design and Test magazine. Also, it has established specific links with the other organizations involved in Design Automation such as: VHDL International (VI), Design Automation Standards Committee (DASC), the European SIGVHDL, Verilog International. The DATC newsletter offers editorial space for all of these organizations. An annual in-person meeting is held at one of the major Electronic Design Automation conferences, such as ICCAD.

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ICCAD 2008 Novel Advance Program

Reported by Juan Antonio Carballo (ICCAD Publicity Chair)

The International Conference on Computer-Aided Design (ICCAD) passed its 25th anniversary, and in doing

so continued to evolve and grow. In 2008, ICCAD presented a technical program including papers, several interactive panels and networking receptions, and a number of embedded and stand-alone tutorials. New this year, ICCAD also opened its doors to external workshops which will be collocated with ICCAD and will leverage the professional management that the conference is known for.

The conference started on Monday, November 10th with the plenary session and a Keynote address by Mary Lou Jepsen, chief hardware architect and first CTO of the "One Laptop per Child" project, focused on innovating computing platforms for emerging low-income geographies. She included substantial content about CAD for displays. ICCAD 2008 second keynote was given by Dmitri "Mitya" Chklovskii, a worldwide research leader on the human brain itself and how it relates to conventional computers. Finally, Giovanni de Micheli, an EDA (Electronic Design Automation) veteran well known for his distinguished contributions over decades, discussed exciting new frontiers in biology and environmental engineering in an invited lunch talk.

The remainder of ICCAD's program included papers included 122 outstanding papers for presentation, split into 40 sessions over three days. They were selected by a 90-strong technical program committee from 458 received worldwide submissions.

In order to enable attendees to attend both tutorials and collocated workshops, in 2008 ICCAD's tutorials were run in parallel with technical paper sessions, while workshops were held on Thursday. In 2008, ICCAD featured four half-day tutorials, plus three embedded tutorials, and two special designer sessions, all focused on providing additional broad perspectives for ICCAD's audience.

Recognizing the increasing value of networking, ICCAD 2008 also hosted numerous social events and meetings designed to keep attendees in touch with like-minded colleagues. These events included ICCAD's traditional Monday evening panel on the future of technology, plus numerous meetings for CEDA, SIGDA, DATC, and other organizations.

With this superior and improved technical program, we believe ICCAD continues to be the ideal place for discovering the top design technology innovations, staying on top of emerging design fields with superb tutorials, maintaining and growing one's network, and generally participating in all aspects of the electronic design automation sector.

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Si2/OpenAccess+ Conference

The 13th Si2/OpenAccess+ Conference has taken place last October 13th in the Network Meeting Center at Techmart, in Santa Clara (CA). It showcased a wide variety of presentations and demos that have demonstrated recent and pervasive OpenAccess adoption among end-users, IDM's, fabless / fab-lite companies, and EDA companies. The keynote speaker was a luminary in the EDA industry, Lucio Lanza. In addition to informative presentations on new OpenAccess based tools, there were presentations on the use of OpenAccess as a platform for multi-company flow integration, such as the

Open Engines initiative and the Interoperable PDK Library (IPL) initiative, highlighting that the original promise of OpenAccess has come to fruition. The demo session/mixer in the evening, which has always been a highlight of previous conferences as a forum to exchange current know-how on implementation advances, has showcased some of the interesting capabilities exploiting OpenAccess presented during the day sessions.

You can find more information about this and other events on the Si2 website (www.si2.org).

<i>Upcoming Conferences/ Bill Joyner, william.joyner@src.org</i>	
ASP-DAC	Yokohama (Japan), Jan. 19-22, 2009
DATE	Nice (France), April 20-24, 2009
GLSVLSI	Massachusetts (USA), May 10-12, 2009
MEMOCODE	Cambridge (USA), July 13-15, 2009
DAC	San Francisco (USA), July 26-31, 2009

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IEEE COUNCIL ON ELECTRONIC DESIGN AUTOMATION

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