

## **Design Automation: Overview and Trends**

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### **Abstract**

In this talk, I will give an overview of the VLSI Design Automation (DA) department at IBM Research and its activities. I will briefly highlight projects on logic and physical synthesis, transistor tuning, leakage power control, statistical timing and optimization, design for manufacturing and system level tools. Then I will talk about the technology and architectural innovations that are underway to sustain CMOS scaling and their implications on design automation tools. I will conclude with a discussion of speculative technologies and potential DA research in the long term.

### **Biography**

David Kung received his B.A from U.C. Berkeley, M.A. from Harvard University and the Ph.D. from Stanford University, all in Physics. He then joined the IBM Watson Research Center and worked on hardware simulation, logic and physical synthesis. He is currently senior manager of Design Automation.

*Coffee and cookie will be served. For more information about the UT-Austin VLSI Seminar Series, please visit the web. <http://www.cerc.utexas.edu/vlsi-seminar/>*