CALL FOR PARTICIPATION

SLIP'99

International Workshop on System-Level Interconnect Prediction

Embassy Suites Hotel, Monterey, California, USA

April 10 - 11, 1999

Updated information is available on the SLIP web site:
http://www.elis.rug.ac.be/~dstr/SLIP.html

1 About SLIP'99

The Workshop on System-Level Interconnect Prediction is a new forum for the exchange of ideas related to *estimation of interconnect design parameters* in VLSI CAD applications. All aspects of interconnect design parameter estimations and their applications to CAD and computer architecture evaluation are in the scope of the workshop. This year, special interest goes to *Rent's rule*. Also, while most research on interconnection length and topology estimations has been performed in the a posteriori (i.e., post-layout) regime, this workshop seeks to promote research on *a priori and on-line* (i.e., pre-layout and during layout) estimations since these will be fundamental to the development of future convergent design methodologies. Interconnection length estimates also provide deeper insight in the placement properties of circuits on different carriers, e.g., three-dimensional architectures with optical channels used for the third dimension of interconnect.

The 1999 SLIP workshop will provide an *informal context for discussions* on key new directions in the field, as well as *presentations of leading-edge theoretical and experimental contributions*. Contributed papers will be invited for submission to a special issue of the IEEE Transactions on VLSI, devoted to system-level interconnect prediction.

2 Program highlights

- Two TUTORIAL sessions will be organized:
  - one on Rent's rule and its importance to Computer-Aided Design;
  - one on the use of a priori wire length estimates.
- INVITED presentations:
  - Wilm E. Donath (IBM T.J. Watson Research) will present a historical view on Rent's rule and interconnection length estimations;
  - Professor James D. Meindl (Georgia Institute of Technology) will guide us through the exciting world of wire length estimations and their importance to Computer-Aided Design.
- ROUND TABLE DISCUSSIONS.
  Based on the position statements received, round table discussions will be organized on the main workshop topics.
- Two FULL PAPER sessions with leading-edge research results from Asian, European, and American universities.

3 Workshop topics

Topics of interest include, but are not limited to:

- Rent's rule and its applications in VLSI CAD
- A priori, on-line, or a posteriori estimation of interconnect design parameters such as interconnection length, area occupancy, signal delay, power dissipation, etc.
- Theoretical estimation techniques
- Estimation algorithms
- Applications of interconnect parameter estimations in CAD, e.g., floorplanning, placement, routing
- Applications of interconnect parameter estimations for system architecture evaluation
- Interconnect parameter estimations for ASIC's, MCM's, and FPGA's

4 Workshop site

The workshop will take place in the Embassy Suites (Monterey Bay) Hotel. For room reservations, please contact the hotel directly (Address: 1441 Canyon Del Rey, CA 93955; Tel.: (408) 393-1115; Fax: (408) 899-1928) and mention that you are attending the SLIP Workshop.

Embassy Suites on Monterey Bay is within minutes of the Monterey Bay Aquarium, Fisherman's Wharf, sport fishing, Cannery Row, Pebble Beach, 17-Mile Drive and 17 championship golf courses. The hotel and conference center is just two blocks from the beach and minutes from the Monterey Peninsula Airport.

The day after the workshop, the International Symposium on Physical Design (ISPD'99) will start at the same location.

5 Registration

If you want to attend the workshop, please contact

Dirk Stroobandt
University of Ghent, ELIS Department
Sint-Pietersnieuwstraat 41
B-9000 Gent
BELGIUM
Tel.: +32 9 264.34.01
Fax: +32 9 264.35.94
E-mail: dstr@elis.rug.ac.be

Registration information will then be sent to you. The registration fee will be kept minimal.

6 Organization

Prof. Andrew B. Kahng (University of California at Los Angeles, USA)
Dr. Dirk Stroobandt (University of Ghent, Belgium)