## **Timing Influenced Force Directed Floorplanning**

Youssef, H. Sait, S.M. Al-Farra, K.J.; Dept. of Comput. Eng., King Fahd Univ. of Pet.Miner., Dhahran;

Design Automation Conference, 1995, with EURO-VHDL, Proceedings EURO-DAC '95., European; Publication Date: 18-22 Sep 1995; ISBN: 0-8186-7156-4
King Fahd University of Petroleum & Minerals

## http://www.kfupm.edu.sa

## **Summary**

We present a timing driven floorplanning program for general cell layouts. The approach used combines quality of force directed approach with that of constraint graph approach. A floorplan solution is produced in two steps. First a timing and connectivity driven topological arrangement is obtained using a force directed approach. In the second step, the topological arrangement is transformed into a legal floorplan. The objective of the second step is to minimize the overall area of the floorplan. The floorplanner is validated with circuits of sizes varying from 7 to 125 blocks

For pre-prints please write to:abstracts@kfupm.edu.sa