

LSIモジュール配置問題における自動配置手法^{*}

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An Automatic Placement Method for LSI Modules

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Abstract

Generally, module placement of the VLSI layout design is one of the combinational optimization problems. The genetic algorithm (GA) which simulates the creature's evolution is an effective technique for the combinational optimization problems. By repeating a selection, crossover and mutation in GA, an optimal or near optimal solution is obtained.

In this paper, we discuss an application of GA to the LSI module placement. By using some ideas to the formation of initial placement and crossover technique in the GA, we have obtained better results than the simulated annealing (SA) and others.

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