

Cover letter

The following paper is accepted by ICCAD'11: “Inferring Assertion for Complementary Synthesis”.

This TCAD paper extends that ICCAD11 paper in the following ways:

1. Explaining our idea with an example in Section II.
2. Proposing an automatic algorithm to discover all decoders' Boolean relations in Subsection V-A and V-B.
3. Proposing an automatic algorithm to characterize precondition for each discovered decoder in Subsection V-D.
4. Presenting the experimental results on dealing with multiple decoders in Subsection VI-D.

Section III, Section IV, Subsection VI-A, VI-B VI-C and Appendix is the same as that of ICCAD'11 paper.