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Decomposition of a system of incompletely specified Boolean functions defined with a binary decision diagram. (English. Russian original) [Zbl 1325.94173](#)
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Summary: We propose a decomposition method for systems of incompletely specified Boolean functions represented as binary decision diagrams. Minimizing the number of intermediate functions in such a decomposition is intended to improve the performance of Boolean circuits made of library elements. A characteristic feature of our method is the fact that after decomposition (cutting) of the original binary decision diagram one of two decomposition units is represented as a system of DNFs.

MSC:

94C10 Switching theory, application of Boolean algebra; Boolean functions (MSC2010)

94C15 Applications of graph theory to circuits and networks

Keywords:

[decomposition method](#); [incompletely specified Boolean functions](#); [binary decision diagrams](#)

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