

About One Method of Solution of the Multi-criteria Boolean Optimization Problems

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The most common method of solution of multi-criteria Boolean optimization problems is reducing the problem to a scalar (one-criteria) problem, whose objective function represents some combination of the initial criteria. The linear convolution of criteria are used most frequently. This approach is not a principal novelty in the process of problem analysis and problem solving due to the fact that it mostly relies on well-known one-criteria methods of problem solution of linear convolutions.

The method, which relies on the principle of sorting of criteria, is considered for Boolean bi-criteria optimization problems.