

Batishchev, Dmitrij I.; Anuchin, Vladimir F.; Shaposhnikov, Dmitrij E.

The use of the qualitative information on the importance of particular criteria for the computation of weighting coefficients. (English) [Zbl 0765.90078](#)

Multiobjective problems of mathematical programming, Proc. Int. Conf., Yalta/ USSR 1988, Lect. Notes Econ. Math. Syst. 351, 2-7 (1991).

Summary: [For the entire collection see [Zbl 0754.00017](#).]

The objective of this paper is to describe the procedure of the convolution of the vector optimality criterion by means of addition or generalized logical convolution in solving the multiobjective optimization problem. The procedure of computing the weighting coefficients of relative importance with regard to the current value of the controlled parameters on the basis of qualitative information on the binary relations of preference for the particular criteria is shown, with the “guaranteed result” principle realized. The proofs not supplied here can be obtained from other publications of the authors cited in the references.

MSC:

[90C29](#) Multi-objective and goal programming

Cited in **1** Document

Keywords:

[convolution of the vector optimality criterion](#); [multiobjective optimization](#)