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On the domination property and the existence of Pareto-efficient points in convex vector optimization. (Sur la propriété de domination et l'existence de points Pareto-efficaces en optimisation vectorielle convexe.) (French) [Zbl 0857.90114](#)
RAIRO, Rech. Opér. 28, No. 1, 77-84 (1994).

Summary: Concepts such as convexity, semicontinuity and recession cones are extended in a natural way to vector-valued functions in the preliminaries. The results so obtained are used to study the domination property in the constrained convex vector-valued optimization problem. We so obtain, with the first orthant as a domination cone, generalizations of known results on the matter. As by-products, we give conditions for the existence of Pareto-efficient points.

MSC:

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

Keywords:

[convexity](#); [recession cones](#); [vector-valued functions](#); [domination property](#); [Pareto-efficient points](#)

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