

STABILITY BY SET CONVERGENCES: FROM VECTOR TO SET OPTIMIZATION

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The notions of set convergences reveal to be very useful to study stability properties in vector optimization. Indeed, some results that show how the convergence of feasible region implies the convergence of efficient frontiers are known. The oldest ones are based on suitable compactness assumptions that concern the sequence of sets as a whole (see [1, 3–5, 8]). Moreover, more recently, some results about convergence of efficient frontiers have been obtained by replacing compactness by convexity ([6, 7]). After a presentation of these results, the last aim of the talk is to extend this class of results to the broader framework of set optimization, that recently received an increasing attention in the literature ([2]).

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