

On some existence results for strong vector equilibrium problems

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Abstract

In this paper we turn our attention to strong vector equilibrium problems given by a sum of two functions. Using the Ky Fan's lemma, we state existence results of solutions of this problems under convexity, semi-continuity and monotonicity assumptions. The obtained results allow us to recover or to improve earlier theorems from the literature. An interesting application is given to strong vector equilibrium problems with cone constraints.