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*Nonempty intersection theorems via KKM theory*

There exist a lot of problems in different sciences which can be formulated and solved by finding an intersection point of a family of sets. KKM theory is an important tool for showing the existence of such point. In this work, we present some KKM-type results to find an intersection point for set-valued mappings. Furthermore, some applications of these results are obtained. The conditions of the presented theorems improve most of the known results in the literature.