SOME NEW MINIMAX THEOREMS

MOREANDARD BACKER

Amstract. We establish an alternative theorem and deduce some new minimax theorems extending classical results such as Fan, König and Simons theorems. Some applications will be given.

Keywords: Minimax theorem, Alternative theorem, convexlikeness, function spaces.

1. INTRODUCTION

Let X and Y be arbitrary nonempty sets and $f: X \times Y \to \mathbb{R}$ be a function. Recall that, f is said to be t-convexiike on X for some $t \in (0,1)$, if and only if for all $x_1, x_2 \in X$, there exists $x_3 \in X$ such that $f(x_3, y) \leq t f(x_1, y) + (1-t)f(x_2, y)$, for all $y \in Y$ and f is said to be t-concavelike on Y, if and only if for all $y_1, y_2 \in Y$, there exists $y_3 \in Y$ such that $f(x, y_3) \geq t f(x, y_1) + (1-t)f(x, y_2)$, for all $x \in X$. We say that f is convexible on X, a concept due to Fan, (resp. concavelike on Y) if and only if f is t-convexible on X (resp. f is t-concavelike on Y) for every $t \in (0, 1)$. Clearly, a convex (resp. concave) function on a convex set is convexible (resp. concavelike) but the converse is not true in general. The more general notions of infsup-convexity and supinf-concavity will be given in Definition 1 and Proposition 1. Several properties of these concepts and their uses can be found in [23, 25, 18, 8, 9, 10]. We say that f has a property (P) on X (resp. on Y) if the function $f(\cdot, y)$ (resp. $f(x, \cdot)$) has the property (P) for every $y \in Y$ (resp. for every $x \in X$). In general, the properties that concern us in this paper will be $(P) = \text{boundedness}^+$, "semicontinuity", "convexity" or "generalized convexity".

The Fan minimax theorem in [12, Theorem 2] (see also [23, Theorem 11]) says that if Y is an arbitrary nonempty sets, X is a compact Hausdorff space and $f: X \times Y \rightarrow \mathbb{R}$ is a function, lower semicontinuous convexisor on X and concavelike on Y, then

$$\inf_{x \in X} \sup_{u \in V} f(x, y) = \sup_{x \in V} \inf_{y \in X} f(x, y). \quad (\bullet)$$

The Fan minimax theorem was extended by Simons in [22, Theorem 5c] (see also [23, Theorem 26]) to two-functions minimax inequality as follows. Let Y be an arbitrary nonempty sets, X is a compact Hausdorff space, $t \in (0, 1)$ and $f, g : X \times Y \to \mathbb{R}$ be two functions such that:

- f is t-convexlike and lower semicontinuous on X,
- (ii) g is t-concavelike on Y.
- $(iii) f \leq g$

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Michael Hoelscher

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