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Abstract

Text of the abstract.

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1 Introduction

Let X be a real Hausdorff, locally convex topological vector space and K be a nonempty subset of X. An equilibrium problem associated to f and K, or briefly $EP(f,K)$ in the sense of Blum and Oettli [40], is stated as follows:

$$\text{find } x^* \in K \text{ such that } f(x^*, x) \geq 0 \text{ for all } x \in K,$$

that $f : K \times K \longrightarrow \mathbb{R}$ is a bifunction.

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2 Preliminaries

2.1 Subsection

2.1.1 Subsubsection

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Lemma 2.1. [50] If $f : K \longrightarrow Z$ is a C-lower semicontinuous function, then the set $\{x{\in}K : f(x) \notin intC\}$ is closed in K.

The following definition will be used in the sequel.

Definition 2.2. [41] Let X be a real Hilbert space, and let S be a nonempty subset of X. Suppose that x is a point not lying in S. Suppose further that there exists a point $s{\in}S$ whose distance to x is minimal. Then s is called a closest point or a projection of x onto S. The vector $x - s$ is called a proximal normal direction to S at s. Any nonnegative multiple of such a vector is called a proximal normal to S at s, and the set of all proximal normals to S at s is denoted by $N_S^P(s)$. It is clear that $N_S^P(s)$ is in fact a cone.

Table 1: Please write your table caption here

first	second	third
number	number	number
number	number	number

Theorem 2.3. If p then q

Proof . Since p is true, q will also be true □

In theorem 2.3 we have ...

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