

Best Approximation in Real Linear 2-Normed Spaces

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Abstract: This paper defines, characterizes, characterizations and strong unity of best uniform approximations in real linear 2-normed spaces.

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Key Words and Phrases: Best approximation, existence, 2-normed linear spaces.

I. Introduction

The concepts of linear 2-normed spaces were initially introduced by Gähler [2] in 1964. Since then many researchers (see also [2,4]) have studied the geometric structure of 2-normed spaces and obtained various results. This paper mainly deals with existence, characterizations and unity of best uniform approximation with respect to 2-norm. Section 2 provides some important definitions and results that are used in the sequel. Some main results of the set of best uniform approximation in the context of linear 2-normed spaces are established in Section 3.

II. Preliminaries

Definition 2.1. Let X be a linear space over real numbers with dimension greater than one and let $\|\cdot, \cdot\|$ be a real-valued function on $X \times X$ satisfying the following properties for all x, y, z in X .

(i) $\|x, x\| = 0$ if and only if x and y are linearly dependent.

(ii) $\|x, y\| = \|y, x\|$.

(iii) $\|ax, y\| = |a| \|x, y\|$, where a is a real number.

(iv) $\|x, y+z\| \leq \|x, y\| + \|x, z\|$.

Then $\|\cdot, \cdot\|$ is called a 2-norm and the linear space X equipped with 2-norm is called a linear 2-normed space. It is clear that 2-norm is non-negative.

Example 2.2. Let $X = \mathbb{R}^3$ with usual component wise vector additions and scalar multiplications. For $x = (x_1, x_2, x_3)$ and $y = (y_1, y_2, y_3)$ in X , define

$$\|x, y\| = \max\{|x_1 y_2 - x_2 y_1|, |x_1 y_3 - x_3 y_1|, |x_2 y_3 - x_3 y_2|\}.$$

Then clearly $\|\cdot, \cdot\|$ is a 2-norm on X .

Definition 2.3. Let G be a subset of a real linear 2-normed space X and $x \in X$. Then $g \in G$ is said to be a best approximation to x from the elements of G if

$$\|x - g, x\| = \inf \{ \|x - g, x\| : g \in X \cap G \}.$$

$g \in G$

where $N(x, G)$ is the subspace generated by x and G .

The set of all elements of best approximation to $x \in X$ from G with respect to the set x is denoted by $P_{G,2}(x)$.

Definition 2.4. A linear 2-normed space $(X, \|\cdot, \cdot\|)$ is said to be strictly convex if

$$\|x + y, x\| = \|x, x\| + \|y, x\|, \|x + y, x\| = \|x, x\| + \|y, x\|, = 1 \text{ and } x \notin N(x, N(x, G))$$

or

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