

Orlicz strongly convergent sequences with some applications to Fourier series and statistical convergence

ABSTRACT

In the present work we introduce and study some strongly convergent sequence spaces of Orlicz functions using infinite matrix over n -normed spaces. We study some algebraic and topological properties of these sequence spaces. A necessary and sufficient condition for strongly convergent sequences is obtained. Finally, we study some applications of these sequences for Fourier series and statistical convergence.

Keyword: Orlicz function; Paranorm space; Λ_2 -strongly convergent; Statistical convergent; n -normed spaces