

عنوان مقاله:

On some fixed points properties and convergence theorems for a Banach operator in hyperbolic spaces

محل انتشار:

مجله آنالیز غیر خطی و کاربردها، دوره 8، شماره 2 (سال: 1396)

تعداد صفحات اصل مقاله: 14

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خلاصه مقاله:

In this paper, we prove some fixed points properties and demiclosedness principle for a Banach operator in uniformly convex hyperbolic spaces. We further propose an iterative scheme for approximating a fixed point of a Banach operator and establish some strong and Δ -convergence theorems for such operator in the frame work of uniformly convex hyperbolic spaces. The results obtained in this paper extend and generalize corresponding results on uniformly convex Banach spaces, $CAT(\sigma)$ spaces and many other results in this direction.

کلمات کلیدی:

Banach operator, uniformly convex hyperbolic spaces, strong and Delta-convergence theorem, Modified Picard Normal S-iteration

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