عنوان مقاله:
ERGODIC RETRACTIONS AND NONLINEAR ERGODIC THEOREMS

نویسنده:

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خلاصه مقاله:

In this paper, we study nonlinear ergodic properties for an amenable semigroup of mappings of type (y) in a Banach space. We prove that if S is an amenable semigroup and $\varphi= \{Tt; t \in S\}$ is a semigroup of mappings of type (y) on a weakly compact, convex subset C of a Banach space such that $D(coF1/n (Tt), F(Tt)) \to 0$, as $n \to \infty$ for each $t \in S$, then $F(\varphi)$ of common fixed points of φ is nonempty and there exists a nonexpansive retraction P form C onto $F(\varphi)$, such that $PTt= TtP= P$ for each $t \in S$, and $Px \in co \{Ttx; t \in S\}$??? $\in S$.

کلمات کلیدی:

Amenable semigroup, common fixed point, mappings of type (y), nonexpansive mapping, nonlinear ergodic theorem, retraction

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