عنوان مقاله:

The induced contractive maps on the covering spaces

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خلاصه مقاله:

Let $(\tilde{X},p)$ be the universal covering space of a compact metrizable space X , which is compact and locally path connected. In this paper, we show that there exist metrics d and d' for X and $\tilde{X}$, respectively, such that any contractive map f:$X\to X$ induces a contractive map on $\tilde{X}$. As an application, it is obtained that every iterated function system(IFS) on the space X with attractor K , induces an IFS on $\tilde{X}$ with attractor $\tilde{K}$, such that $p(\tilde{K})=K$.

کلمات کلیدی:

Covering spaces, Iterated function systems, Contractive maps

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