

عنوان مقاله:

ENTROPY OF DYNAMICAL SYSTEMS ON WEIGHTS OF A GRAPH

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خلاصه مقاله:

Let G be a finite simple graph whose vertices and edges are weighted by two functions. In this paper we shall define and calculate entropy of a dynamical system on weights of the graph G , by using the weights of vertices and edges of G . We examine the conditions under which entropy of the dynamical system is zero, positive or $+\infty$. At the end it is shown that, for $n \in [0, +\infty]$, there exists an order preserving transformation with entropy n .

کلمات کلیدی:

Dynamical system, Entropy, Order preserving transformation, Weight

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