عنوان مقاله:

Bounds for the skew Laplacian (skew adjacency) spectral radius of a digraph

محل انتشار:

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خلاصه مقاله:

For a simple connected graph G with n vertices and m edges, let $\overrightarrow{G}$ be a digraph obtained by giving an arbitrary direction to the edges of G. In this paper, we consider the skew Laplacian/skew adjacency matrix of the digraph $\overrightarrow{G}$. We obtain upper bounds for the skew Laplacian/skew adjacency spectral radius, in terms of various parameters (like oriented degree, average oriented degree) associated with the structure of the digraph $\overrightarrow{G}$. We also obtain upper and lower bounds for the skew Laplacian/skew adjacency spectral radius, in terms of skew Laplacian/skew adjacency rank of the digraph $\overrightarrow{G}$.

کلمات کلیدی:

Digraph, skew Laplacian matrix, skew Laplacian spectrum, skew Laplacian spectral radius