

عنوان مقاله:

On the complexity of the colorful directed paths in vertex coloring of digraphs

محل انتشار:

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خلاصه مقاله:

The colorful paths and rainbow paths have been considered by several authors. A colorful directed path in a digraph G is a directed path with \chi(G) vertices whose colors are different. A v-colorful directed path is such a directed path, starting from v. We prove that for a given \(mathbb{P}\)-regular triangle-free digraph G determining whether there is a proper .\chi(G)-coloring of G such that for every v \in V (G), there exists a v-colorful directed path is \mathbf{NP} -complete

كلمات كليدى:

Colorful Directed Paths, Computational Complexity, Vertex Coloring

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