

## عنوان مقاله:

A note on the intersection graph of the k-ideals of a semiring

## محل انتشار:

کنفرانس بین المللی چالشهای مهندسی، تکنولوژی و علوم کاربردی (سال: 1396)

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## خلاصه مقاله:

Let  $R$  be a commutative semiring with identity. The intersection graph  $GS(R)$  is defined to be the undirected simple graph whose vertices are non-trivial  $k$ -ideals of  $R$  and two distinct vertices are adjacent if and only if the corresponding  $k$ -ideals of  $(R)$  have nonzero intersection. We investigate the interplay between the semiring-theoretic properties of  $(R)$  and the graph-theoretic properties of  $GS(R)$ . We determine the diameter and the girth of  $GS(R)$ .

## کلمات کلیدی:

graph, semiring, k-ideal, connected

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/755715>

