

عنوان مقاله:

Structural properties of fuzzy graphs

محل انتشار:

مجله سیستم های فازی، دوره 14، شماره 1 (سال: 1396)

تعداد صفحات اصل مقاله: 14

نویسندگان:

Xiaonan Li - School of Mathematics and Statistics, Xidian University, Xi'an, Shaanxi, China

Huangjian Yi - School of Information and Technology, Northwest University, Xi'an, Shaanxi, China

خلاصه مقاله:

Matroids are important combinatorial structures and connect closely with graphs. Matroids and graphs were all generalized to fuzzy setting respectively. This paper tries to study connections between fuzzy matroids and fuzzy graphs. For a given fuzzy graph, we first induce a sequence of matroids from a sequence of crisp graph, i.e., cuts of the fuzzy graph. A fuzzy matroid, named graph fuzzy matroid, is then constructed by using the sequence of matroids. An equivalent description of graphic fuzzy matroids is given and their properties of fuzzy bases and fuzzy circuits are studied.

کلمات کلیدی:

Fuzzy graph, Partial fuzzy subgraph, Cycle, Fuzzy matroid

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1460758>

