

عنوان مقاله:

Linear Feature Extraction Using Fuzzy Logic From High Resolution Satellite Imagery

محل انتشار:

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خلاصه مقاله:

Obtaining information related to mapping is a common challenge for all world governments. Maps are used by military (strategic), security departments (police, health services, etc), construction industries (electricity, phone, gas and other networks) as well as by ordinary people (road, sport, etc). Unfortunately operators training to reach the ability to extract features for official mapping range from 5 to 10 years. So there is a need to extract features automatically from images and there are many researchers who are working on this subject and there are different methods such as fusion, mathematical morphology, dynamic programming, snake model, and KALMAN filtering. I have used Fuzzy logic and mathematical morphology to extract linear features just like roads. The strength of the fuzzy method is its simplicity and has high flexibility for easily inserting new bands or removing bands without disturbing the remaining parts of the classifier. Another advantage of this fuzzy classification method is its ease in introducing on artificial neural networks. In mathematical morphology, we have used advanced morphological algorithms and it has promising results

کلمات کلیدی:

Fuzzy classification, mathematical morphology, automatic feature extraction

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