

## عنوان مقاله:

MMRO: A Feature Selection Criterion for MR Images Based on Alpha Stable Filter Responses

## محل انتشار:

هفتمین کنفرانس ماشین بینایی و پردازش تصویر ایران (سال: ۱۳۹۰)

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## خلاصه مقاله:

In feature-based image registration, feature selection and reduction methods play an important role in decreasing computational burden of these operations. In this paper, a new approach is introduced to reduce the dimension of extracted feature vectors of MR images. This approach is based on the selection of the maximum and minimum responses of the alpha stable filter for the MR images over the extracted features with different orientation in frequency domain. This algorithm selects the rotation invariant features which are suitable for image registration purposes. It has been shown that these features could efficiently describe the image elements. The discriminating ability of the features selected by the proposed method is compared with MRO method and an average improvement of ۱۷۵ % was obtained based on the defined discriminating value

## کلمات کلیدی:

Alpha Stable Filter, Feature Extraction, Feature selection, MR Image registration

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