

عنوان مقاله:

A Novel Iris Recognition System based on Greedy-Balloon SnakeAlgorithm

محل انتشار:

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تعداد صفحات اصل مقاله: 5

نویسندگان:

Seyyed Mohammad Sadegh Moosavi - n University of Science & Technology

Ahmad Ayatollahi - Iran University of Science & Technology

خلاصه مقاله:

A biometric system provides automatic identification of an individual based on unique features or characteristics possessed by the individual. Iris recognition is regarded as the most reliable and accurate biometric identification system available. The pattern of the human iris differs from person to person. The most important step in the iris recognition system is the segmentation process. Different methods of iris segmentation have been presented so far. In this paper a novel type of active contour has been developed which can be employed in iris segmentation. In fact, the proposed method is a composition of the greedy snake algorithm and the balloon active contour. The novel active contour has been named greedy- balloon. Both of the greedy and balloon active contours have more advantages than traditional active contour. That is why we used this active contour for our research. The proposed algorithm was tested on the CASIA Iris Image Database 1.0 and the obtained results showed that the proposed method has an acceptable accuracy.

کلمات کلیدی:

iris recognition; biometric; active contour; segmentation; snake

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