Abstract

This paper proposes a novel approach to extract the Region of Interest (ROI) for palm print and inner knuckle print (IKP) from hand images captured from a digital camera. An new algorithm to detect candidate key points on hand region is described. Using the candidate key points a novel approach to locate the ROI of palm print and inner knuckle print is proposed. The proposed approach is evaluated using the database collected at our institute. The results obtained are promising and confirm the usefulness of proposed ROI extraction approach for developing hand based biometric recognition systems.

References


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**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**
Biometric systems, ROI, Palm print, IKP.