Abstract

This paper proposes an 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


11. Xue miaoxu, Qiang Jin, Le Zhou, Jing Qin, Tien-Tsin wong, Guoqiang Han, "Illumination- Invarient and Deformation-Tolerant Inner knuckle Print Recognition Using Portable Devices", No 15, pp 4326-4352, Sensors 2015.


**Index Terms**

Computer Science  
Pattern Recognition

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