

Summary

This paper introduce a novel approach for face image segmentation base on Voronoi Diagram (VD) technique. We used intensity value and region pixels value for enhance preprocessing step on gray-scale image. The method for locating and extraction face/head boundary are applied feature point of the original image which are useful dual tessellation of the VD is know as Delaunay Triangulation (DT). A target of experiment is reported face image segmentation that uses still face image from BioID database. The result of this method clearly demonstrates the segmen-tation which performs in comparison with another method in quality of gray value and speed. It indicates a new alternative approach that can be used for face seg-mentation, detection, and extraction which are the next steps of the entire face recognition system.

