Abstract

The objects extraction from their background could be a difficult assignment. Since one threshold or structure threshold certainly fails to resolve doubt, in this paper, we have proposed a brand new technique that automatically observe the edge to exactly discriminate pixels as foreground or background using automatic threshold mechanism. By first distinguishing boundary, its associated curvatures, and edge response, used as benchmark to gauge the possible location of the boundary. Results show that the projected technique systematically performs well in various illumination conditions, as well as indoor, outdoor, moderate, sunny, and rainy cases. By an examination with an empirical evidence in every case, the error rate and the shadow detector index indicate a correct detection, that shows substantial improvement as compared with alternative existing ways.

References

1. C. R. Wren, A. Azarbeyejani, T. Darrell, and A Pentland, “Pfinder: Realtime tracking of the

**Index Terms**

Computer Science  
Image Processing

**Keywords**

Boundary evaluation, curvature, edge, error rate, foreground extraction, gradient map, shadow detector index, threshold.