Abstract

Edge detection is one of the most important techniques used for image segmentation. Image segmentation remains a puzzled problem even after four decades of research. In this paper, a soft computing approach based on fuzzy logic is applied on histogram of an image to enhance edge detection technique. We used BSD images for experimentation and their respective ground truths for qualitative evaluation of proposed approach.

References

- Abdallah A. Alshennawy, and Ayman A. Aly, "Edge Detection in Digital Images Using Fuzzy Logic Technique", World Academy of Science, Engineering and Technology

**Index Terms**

Computer Science  Image Processing

**Keywords**

Edge detection  Fuzzy Logic  Histogram  Ground Truth  BSD (Berkeley Segmentation Database)