



RESEARCH ARTICLE

Various Edge Detection Methods for Foreground Detection

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Abstract— In this paper, we study different edge detection techniques, edge detection is one of the most commonly used operations in image analysis, and there are probably more algorithms in the literature for enhancing and detecting edges than any other single subject. The goal of edge detection process in a digital image is to determine the frontiers of all represented objects based on automatic processing of the colour or gray level information in each present pixel. An edge is the boundary between an object and the background, and indicates the boundary between overlapping objects. This means that if the edges in an image can be identified accurately, all of the objects can be located and basic properties such as area, perimeter, and shape can be measured. Since computer vision involves the identification and classification of objects in an image, edge detections is an essential tool.

Key Terms: - Edges; gradient, canny; Sobel; prewitt

Full Text: <http://www.ijcsmc.com/docs/papers/June2013/V2I6201366.pdf>