عنوان مقاله:

A Novel Logarithmic Edge Detection Algorithm

محل انتشار:

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خلاصه مقاله:

In this paper a novel logarithmic edge detection algorithm is presented. The algorithm is an extended and modified version of PLIP Sobel edge detection algorithm. Six new kernels are suggested to achieve a higher level of independence from scene illumination and provide obvious distinction between edge and non-edge pixels. We present experimental results for this method, and compare results of the algorithm against several leading edge detection methods such as Sobel, Canny and conventional logarithmic edge detection. To compare results objectively, we computed edginess judging index (EJI) for edge detection algorithms. The proposed technique is effective, as demonstrated by computer simulations, conceptually straight forward, and easy to use.

کلمات کلیدی:

Keywords-Logarithmic Image Processing; Edge Detection;Thresholding; Edginess judging index

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