A Review on Emboss and Deboss Features of Edge Matching

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Abstract

Matching of the product is an important problem in the production industry to maintain the quality control. Emboss and Deboss are the processes of creating both raised or recessed relief images and designs in paper and other materials. An embossed pattern is raised against the background, while a debossed pattern is sunken into the surface of the material. Every Emboss or Deboss object has inner and outer boundary of the object, which may be shaped or unshaped. Therefore, the object's boundary is detected by Edge Detection using different operators like Canny, Sobel, Log, Prewitt etc. Till now, various methods available in the market are only matching objects which are following straight line and some particular shapes, i.e. square, rectangle, circle etc. So, researchers have proposed modification or investigation for Edge matching to make it proper for practical applications of unstructured shape. For Edge Matching, different similarity measures such as the Straight Line Matching Algorithm and Corner detection are used. But when the query image is unstructured, these techniques fail. In this paper, we surveyed various Edge Detection and Edge Matching techniques.
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References


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Index Terms

Computer Science Pattern Recognition

Keywords

Edge Detection, Contour Tracking, Edge Matching