JCDSA> Vol.3 No.1A, January 2013

OPEN ACCESS

Automatic Facial Spots and Acnes Detection System

PDF (Size:1181KB) PP. 28-35 DOI: 10.4236/jcdsa.2013.31A006

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ABSTRACT

Recently medical cosmetic has attracted significant business opportunity. Micro cosmetic surgery usually involves invasive cosmetic procedures such as non-ablative laser procedure for skin rejuvenation. However, to select an appropriate treatment for skin relies on accurate preoperative evaluations. In this paper, an automatic facial skin defects detection and recognition method is proposed. The system first locates the facial region from the input image. Then, the shapes of faces were recognized using a contour descriptor. The facial features are extracted to define regions of interest and an image segment method is used to extract potential defect. A support-vector-machine-based classifier is then used to classify the potential defects into spots, acnes and normal skin. Experimental results demonstrate effectiveness of the proposed method.

KEYWORDS

Medical Image Analysis; Texture Recognition; Skin Disease Identification; Spot and Acne Detection

Cite this paper

C. Chang and H. Liao, "Automatic Facial Spots and Acnes Detection System," *Journal of Cosmetics, Dermatological Sciences and Applications*, Vol. 3 No. 1A, 2013, pp. 28-35. doi: 10.4236/jcdsa.2013.31A006.

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