ROBUST COLOR OBJECT DETECTION AND RECOGNITION (WedPmPO4)

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Abstract:
In this paper, we propose a new method for the detection and the recognition of objects in color images. The developed method processes in two steps. The first one concerns the object detection by a color segmentation method and a labeling algorithm. The second step deals with the recognition of extracted objects. Each object is described by color Zernike moments. In order to recognize each object, we use a support vector machine. We illustrate the efficiency of the proposed method on color images embedding some objects from the COIL–100 database.