A METHOD AND SYSTEM FOR LOCALIZING HUMAN IRIS AND DETERMINING HUMAN GAZE DIRECTION FOR STATISTICAL APPLICATIONS

ABSTRACT

[0067] A gaze direction determining system in accordance with the present invention uses a boundary tracing process to determine external boundary features of an image of a human head and the external boundary features of images of the eyes. A chain code derived from the image of the human head and eyes are used to determine a representation of the outline of the human head and the eyes. Selective line-cutting processes are performed to further locate and identify internal features of the human head and the eyes. The chain code derived and the results from the line-cutting processes are compared with existing databases for possible matches and determination of gaze direction of the image of the human head.

[0068] FIG. 9 accompanies the abstract.