

Abstract

Disclosed are colored contact lens detection method and apparatus, iris recognition method and apparatus, and readable storage medium and device. The colored contact lens detection method includes: an eye image is acquired; an average pixel value of the eye image is calculated, and grayscale values of the eye image are processed, so as to obtain a first image matrix; gradient transformation and normalization are performed on the eye image, so as to obtain a second image matrix; a matrix addition operation is performed on the first image matrix and the second image matrix, and each pixel in an image obtained through the matrix addition operation is binarized, so as to obtain a binarized image; and a proportion of pixels having a grayscale value of 1 in a portion, outside a pupil region, of the binarized image is counted, a binarized image having a proportion greater than a set colored contact lens threshold is determined as indicating that no colored contact lens is worn, and a binarized image having a proportion smaller than or equal to the set colored contact lens threshold is determined as indicating that the colored contact lens is worn.