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Patent Search

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Abstract:

The present invention relates to a person identification using periocular biometrics based on Dense Convolutional-121 Capsule Network with African V (DenseCapsNet) hybrid network. It minimize the dimensionality using 2D_PCA and extract the periocular biometric image features with the deep featur

Complete Specification

Description: TECHNICAL FIELD OF INVENTION

The present invention in general relates to a person identification using periocular biometrics.

BACKGROUND OF THE INVENTION

Most of the popular methods of biometrics recognition utilize 'iris' images as a biometric trait to be processed by the system. The iris is a circular are surrounded by the pupil as well as the white colored portion of eye (sclera). It has been observed by the medicine researchers that the visual texture region is almost constant throughout the life. Hence, it is an important biometric trait to identify a person. The performance measures such as accur recognition of the system processing iris image data is quite sound and reliable. It has been observed that the early developments of iris recognition major user attention. Nowadays, the systems do not require much user involvement in the recognition process. The iris information is very difficult t advantageous compared with other non-invasive biometric traits. It has been observed by the researcher community that iris image data that is acqu of electromagnetic spectrum rather than visible part yields more accuracy. However, the image acquisition in near-IR domain costs more that visible spectrum. The resolution of the image plays an important role in iris based person identification. Low-resolution images yield low recognition accura

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