

Method and System for Precision Face Lookup and Identification using Multilayer Ensembles

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Abstract

The present disclosure provides methods and systems for precision face lookup and identification using multilayer ensembles. In some examples, there is provided a method for identifying a target face depicted in a target face image from a plurality of face images, each of the plurality of face images depicting a face, comprising: identifying a plurality of matching face images from the plurality of face images based on the target face using a plurality of models running independently of and in parallel with one another, each of the plurality of models being configured to compare the target face with each face depicted in the plurality of face images, each of the plurality of matching face images being identified by the plurality of models as depicting a face that matches with the target face; and determining, by an ensemble model, which of the plurality of matching face images from the plurality of models depict a face that is an exact match with the target face, the ensemble model being configured to compare each of the plurality of matching face images with one another for the determination.

(Fig. 3)