

METHODS AND SYSTEMS FOR DETECTING PHOTOGRAPH REPLACEMENT IN A PHOTO IDENTITY DOCUMENT

ABSTRACT

Disclosed herein are computer-implemented methods, systems, and apparatus, including computer programs encoded on computer storage media, for implementing a method for detecting photograph replacement in a photo identity document. One of the methods includes receiving image data of a cropped photograph region of an ID and predicting, by a multiclass classification model, an ID category based on the image data of the cropped photograph region. The ID includes a photograph and the cropped photograph region includes at least the photograph. The predicted ID category corresponds to one of a set of predefined classes in the multiclass classification model. The method further includes comparing the predicted ID category with an indicated category of the ID, and in response to the predicted ID category mismatching the indicated category of the ID, determining that the cropped photograph region includes a replaced photograph.

(Figure 1)