SYSTEM, METHOD AND COMPUTER READABLE MEDIUM FOR ALIGNING IDENTIFICATION DOCUMENT BASED ON IMAGE PROCESSING AND DEEP LEARNING TECHNIQUES

ABSTRACT

A system, method and computer readable medium for aligning Identity (ID) documents in a document identity process like verification of ID cards is disclosed. The ID documents may be captured at one or more angles and at one or more locations and one or more segmented landmarks in the ID document are obtained by performing a landmark segmentation process using a neural network model. An image processing unit is used for processing the ID document by extracting plurality of feature points of at least one landmark of the ID document, augmenting the feature points to cover at least one non-landmark areas to obtain at least one augmented feature points and dewarping the ID document by performing a perspective transformation of the feature points and the augmented feature points. The present invention uses a hybrid image processing approach that uses both a neural network model and the traditional processing unit.

FIG. 1 accompanies the abstract.