

SYSTEMS AND METHODS FOR DOCUMENT AUTHENTICATION

ABSTRACT

A system for authenticating a subject identification document includes a memory section storing computer-executable instructions and a memory section storing an enrolled document template, ROI information, and a codebook representing partitions of a [Cb, Cr] color plane. The system includes a processor in communication with the memory. The processor executes the instructions that, when executed, cause the processor to receive an image of the document, the image depicting, in a RGB color space, the document. The processor transforms the image of the document to a second image of the document in a YCbCr color space. The processor assigns pixels within a ROI in the second image corresponding to the ROI information to the partitions of the codebook. The processor generates a template based on respective counts of the pixels assigned to the partitions of the codebook. The processor compares the template to the enrolled document template to authenticate document.

FIG. 2