

A Document Identification Method and System

Abstract

A document identification method and a document identification system are provided. The method includes extracting, using an image frame extraction device, a sequence of image frames from a video clip, the video clip capturing impact of an object against a surface, extracting, using an audio signal extraction device, a stream of audio signals from the video clip, and generating, using a processing device, a first score based on the sequence of image frames and a second score based on the stream of audio signals, using a trained document identification model. The document identification model is trained with a plurality of historical video clips, each of the plurality of historical video clips capturing impact of a document against a surface. The method also includes generating, using the processing device, an identification score based on the first score and the second score, and identifying, using the processing device, if the object in the video clip is a document based on a comparison between the identification score and an identification threshold.

Fig. 1