

## **ABSTRACT**

### **OBJECT RECOGNITION SYSTEM AND METHOD**

The present disclosure provides an object recognition system and a method thereof, the object recognition system can include: an information collection module configured to acquire information about the object to be inspected; a first video acquisition module configured to acquire an image of the object to be inspected, and acquire multiple types of features of the object to be inspected by using a plurality of recognition methods based on the image of the object to be inspected; a storage module configured to store the information about the object to be inspected in association with the multiple types of features of the object to be inspected; a second video acquisition module configured to track and capture a suspect object to acquire an image of the suspect object, and acquire multiple types of features of the suspect object by using the plurality of recognition methods based on the image of the suspect object; and a recognition module configured to recognize identity information of the suspect object based on the multiple types of features of the suspect object and the multiple types of features of the object to be inspected which are stored in association with the information about the object to be inspected in the storage module.

Figure 1