The Design and Implementation of an Invoice Number Recognition and Matching System Based on Android Platform

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ABSTRACT

In this paper, we implement the invoice number recognition and reward-matching system on Android platform, which is a client-server system. Using the camera features provided by a smart phone, the user takes the invoice image and then transferred through the Internet to the server for recognition and reward matching. Also, the result will be transferred in the form of text and voice. By using our system, the process of reward matching is easy. In addition, the matching function is instant. Our server gets the invoice winning numbers from the web page of the Ministry of Finance and updates them to the database immediately after the winning numbers are published. Thus, users can immediately match the invoice numbers.

In this research, we use three hundred invoices as samples. According to the experimental result, the success rate of recognition is 92%, and the average response time is 3.02 seconds.

Keywords : Invoice, Character Recognition, Image Processing