ABSTRACT

Parkir process is one of vital things in our running world. With the growth of vehicle industry, the number of vehicle user is also growing rapidly. So the needs for parking place and fast and automatic parking system is very anticipated. With Computer myriad abilities, Computer are always pushed through their limit to meet the human prospect. Especially in computational and efficiency abilities.

With that problems in mind, systems to recognizing character in license plate are made, so it can help in registering process. Systems are made with KNN method. KNN are usually used in handwriting detection. It speed and relatively easy implementation is one of consideration for using this method. KNN also have fair accuracy in character detection and classification, depending on size of ready dataset.. Raspberry Pi have computer function, and also have micro-controller potential., with included GPIO pins. OCR using both algorithm will be used to chose better method between two.

KNN in made application capable to detect character in image of license plate with accuracy of 77.98% and 9645.988133 ms *average detection time in Raspberry Pi Type B.*

Keywords: license plate, KNN, Raspberry Pi type B,character recognition system for license plate, compared performance