

ABSTRACT

A main task of the computer is the document processing. Because the computer is cheaper than the last and there are developed programming for appropriate using in each business, if we use computer in our business, the performance of the processing will be fast and very efficient. Every days, the large documents are stored in computer by typing, so there are many mistakes. We will use the long time to correct them. We can not avoid typing the document, so we try to find the way in order to key data faster and more efficient. Programmers developed the system of computer that can scan the characters automatically from the paper instead of using human to type the data. It is called OCR (Optical Character Recognition) system. This system can solve the problem of the documents processing. Nowadays, there is a problem which involves OCR system in Thai language. The scanner will recognize Thai alphabet as an image, not a text. As a result, it is difficult to process the documents which are the scanned Thai alphabet.

To solve this problem, our group developed TCR (Thai Character Recognition) system using the basic of OCR concept. Our group proposed a system which is effective and is useful for the development of the recognition in other languages. we intend to apply the constrained algorithm and the split and merge algorithm which both of them are OCR algorithms. The name of the project is "Thai Character Recognition Based On Constraint Graph". The proposed project would be able to solve the

problem in the case of the printed Thai alphabet [defined-font] in many size. Although we will use only one font, our system can be improved to recognize the fonts which have the close characteristics.

