

##C515400 : MAJOR ELECTRICAL ENGINEERING

KEY WORD: RECOGNITION / THAI PRINTED NUMERALS / SYNTACTIC METHOD
ANUN EKWONGVIRIYA : A STUDY ON RECOGNITION OF THAI PRINTED
NUMERALS BY SYNTACTIC METHOD. THESIS ADVISOR : ASSO. PROF.
SOMCHAI JITAPUNKUL, Dr.Ing. 72 pp. ISBN 974-584-395-4

The objective of this thesis is to studying the recognition of Thai printed numerals by Syntactic method. The input character is decomposed into subpatterns, called primitives. The rules governing the composition of primitives are specified by Tree Grammar. The classification is based on the distance computed between an input tree and a group of templates assigned by the position of start point and the number of loops.

By using microcomputer of CPU 80486DX-33, the result of recognition is 97.46 %. The average processing time is 756 msec. per character.