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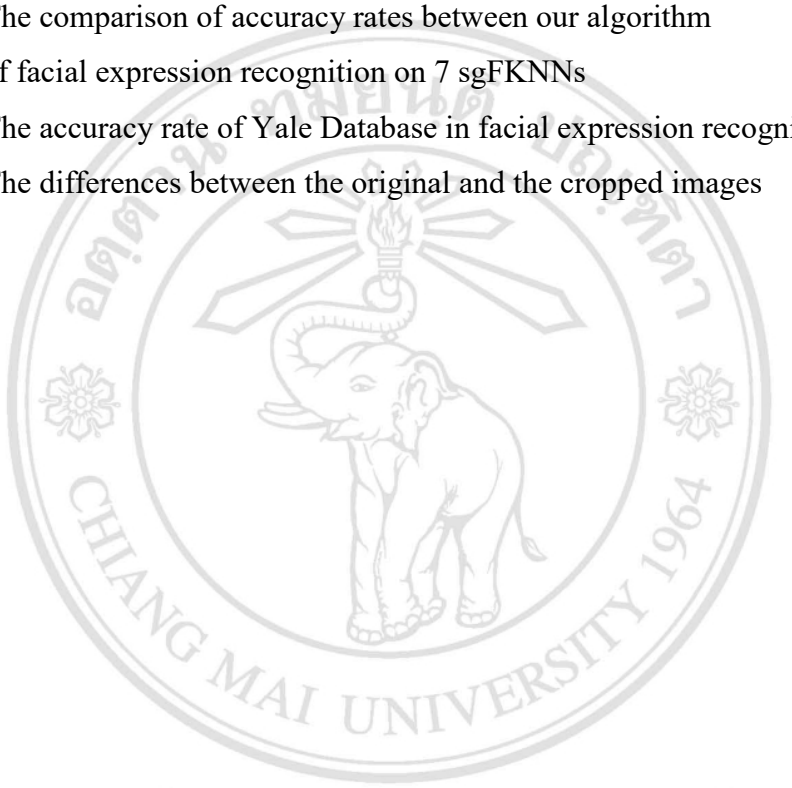

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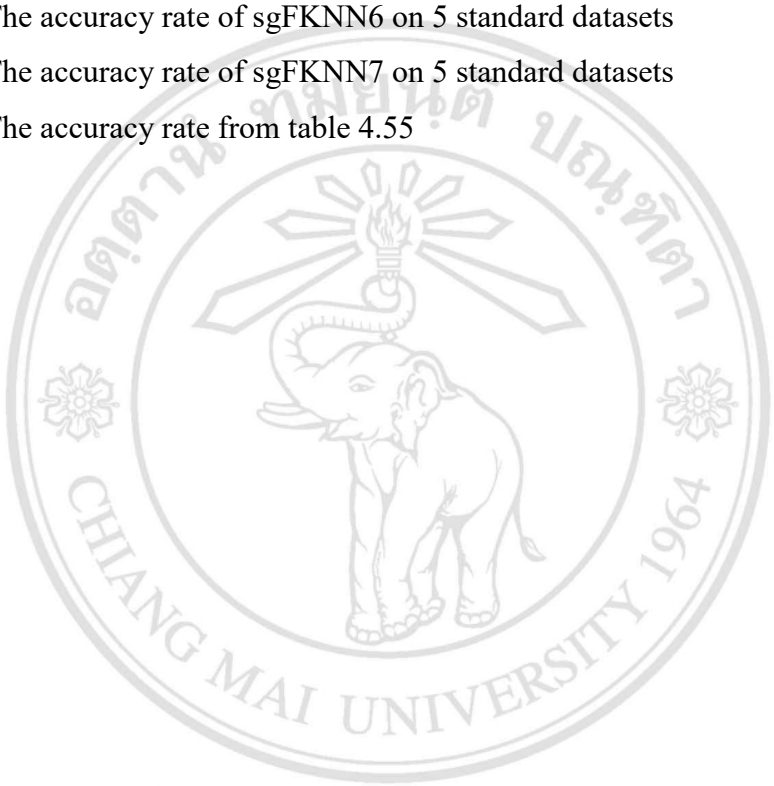

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LIST OF SYMBOLS

C	The number of classes
$lev_{a,b}$	Levenshtein distance between two strings *a, b*
TN	The number of person in the training dataset
$\mathbf{x}_i^j$	A training string of image *i* in class *j*
N_j	The number of training strings of images in class *j*
K	The number of nearest neighbors used
$u_i(\mathbf{x})$	Membership value of string $\mathbf{x}$ in class *i*
u_{ia}	The membership value of training string of image $\mathbf{x}_a^q$ in class *i*
m	The fuzzifier
$\mathbf{x}_{med}$	The median in a set of strings X
V_N	Finite set of nonterminal symbols
V_T	Finite set of terminal symbols
S	Start symbol, $S \in V_N$

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ข้อความแห่งการริเริ่ม

วิทยานิพนธ์นี้นำเสนออัลกอริทึมใหม่ที่เป็นการผสมผสานความไม่แน่นอนเข้ากับสตริงแกรมมาเคเนียเรสเนเบอร์ เพื่อเป็นอัลกอริทึมในการรู้จำข้อมูลที่มีลักษณะเป็นโครงสร้าง ไม่ใช่ข้อมูลที่มีลักษณะเป็นตัวเลข

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STATEMENTS OF ORIGINALITY

This thesis presents new algorithms by incorporating uncertainty into string grammar K-nearest neighbor. This algorithm is a structural dataset recognition algorithm not a numerical dataset recognition algorithm.

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