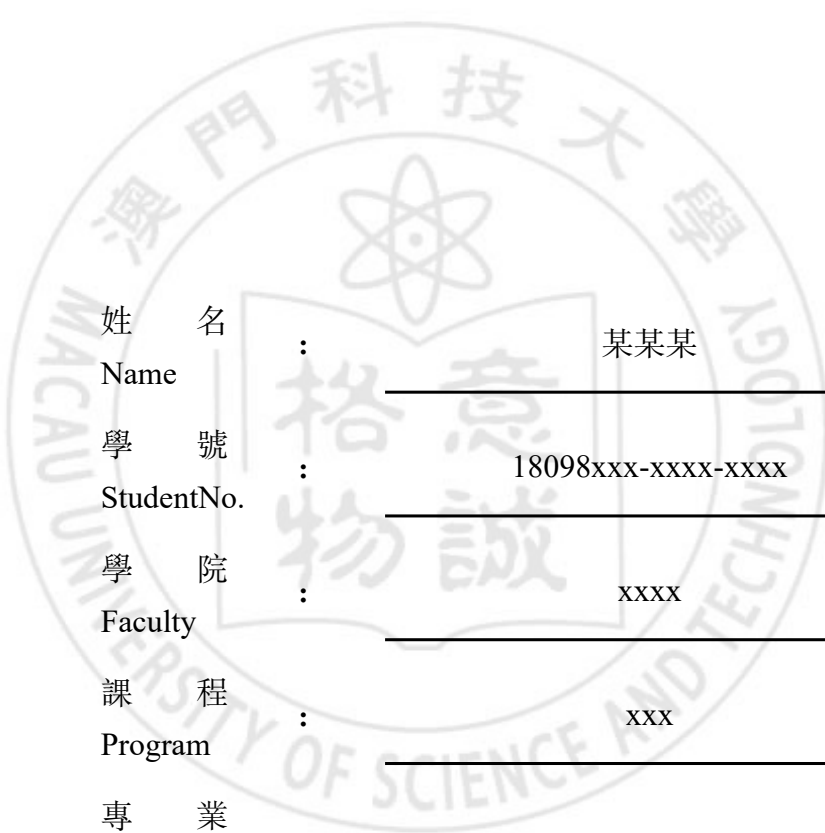


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A thesis

**submitted to the Faculty of Information Technology
and the School of Graduate Studies of
Macau University of Science and Technology
in partial fulfillment of the requirements for the degree of**

xxxx

in

xxxx

April 5, 2022

摘要

摘要

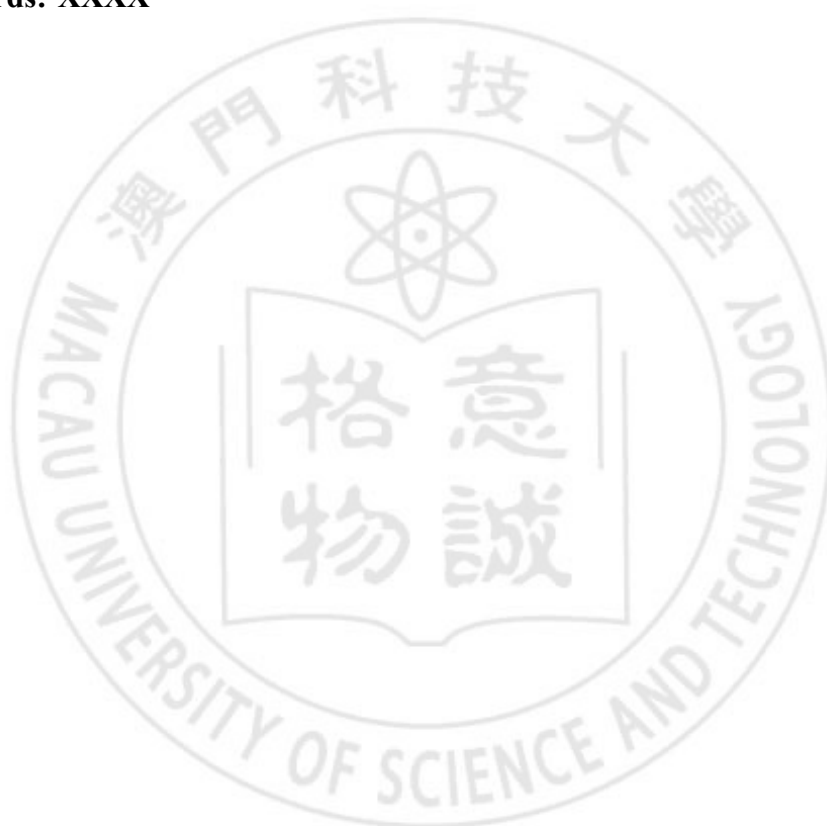
關鍵詞: XXXX



Abstract

Abstract

Keywords: XXXX



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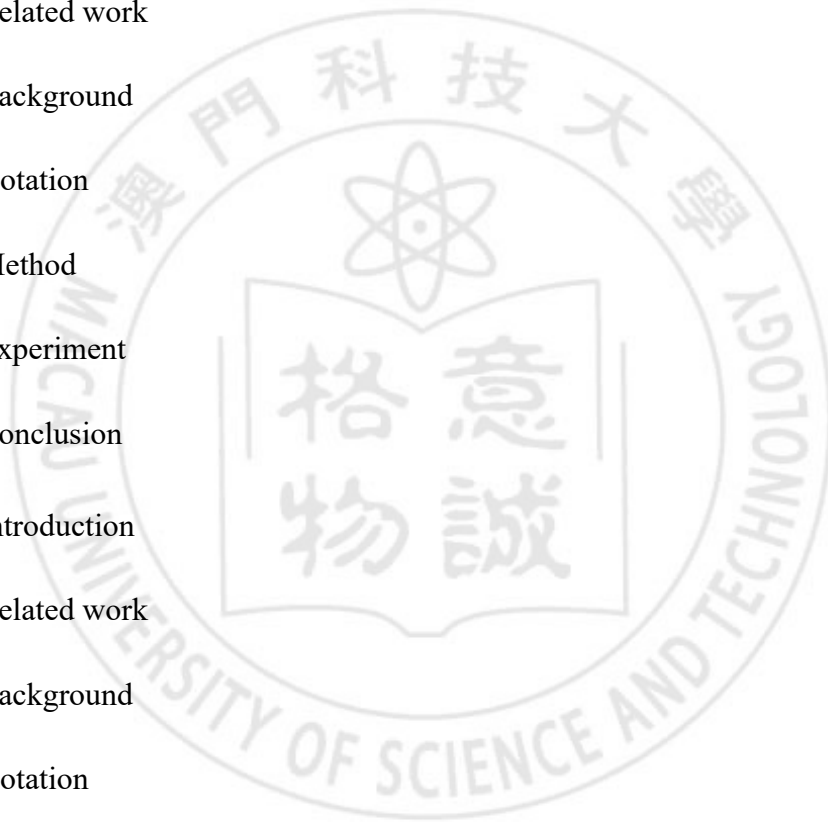


Chapter 1. Chapter one

Chapter one's contents. There is the citation. [[1](#), [2](#)]

- Introduction
- Related work
- Background
- Notation
- Method
- Experiment
- Conclusion

1. Introduction
2. Related work
3. Background
4. Notation
5. Method
6. Experiment
7. Conclusion



Chapter 2. Chapter two

Chapter two'contents.

2.1 Section two

2.1.1 Table

Subsection's contents in Table 2.1 and 2.2 .

2.1.2 Algorithms

Subsection's contents.

The Algorithms 1 and Algorithms 2:

2.1.3 Figure

Figure contents

I Subfigure

In Figure 2.1 and Figure 2.2,

II Tikz Figure

In Figure 2.3 ¹

¹referred from <https://latexdraw.com/draw-flowcharts-latex-tutorial/>

Table 2.1 Comparison of the APs and mAPs with our framework and those from DPM and R-CNN on PASCAL VOC 2007 testing dataset.

	plane	bike	bird	boat	bottle	bus	car	cat
DPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R-CNN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Ours	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

	chair	cow	table	dog	horse	mbik	pers	plant
DPM	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
R-CNN	0.0	0.0	0.05	56.1	60.6	66.8	54.2	0.0
Ours	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Figure 2.1 MUSTSchoolBadgecolor.pdf

Algorithm 1: IntervalRestriction**Data:** $G = (X, U)$ such that G^{tc} is an order.**Result:** $G' = (X, V)$ with $V \subseteq U$ such that G'^{tc} is an interval order.

```

1 begin
2    $V \leftarrow U$ 
3    $S \leftarrow \emptyset$ 
4   for  $x \in X$  do
5      $NbSuccInS(x) \leftarrow 0$ 
6      $NbPredInMin(x) \leftarrow 0$ 
7      $NbPredNotInMin(x) \leftarrow |ImPred(x)|$ 
8   end
9   for  $x \in X$  do
10    if  $NbPredInMin(x) = 0$  and  $NbPredNotInMin(x) = 0$  then
11       $AppendToMin(x)$ 
12    end
13  end
14  while  $S \neq \emptyset$  do
15    REM remove  $x$  from the list of  $T$  of maximal index
16    while  $|S \cap ImSucc(x)| \neq |S|$  do
17      for  $y \in S - ImSucc(x)$  do
18        { remove from  $V$  all the arcs  $zy : \}$ 
19        for  $z \in ImPred(y) \cap Min$  do
20          remove the arc  $zy$  from  $V$ 
21           $NbSuccInS(z) \leftarrow NbSuccInS(z) - 1$ 
22          move  $z$  in  $T$  to the list preceding its present list
23          {i.e. If  $z \in T[k]$ , move  $z$  from  $T[k]$  to  $T[k - 1]$ }
24        end
25         $NbPredInMin(y) \leftarrow 0$ 
26         $NbPredNotInMin(y) \leftarrow 0$ 
27         $S \leftarrow S - \{y\}$ 
28         $AppendToMin(y)$ 
29      end
30    end
31     $RemoveFromMin(x)$ 
32  end
33 end

```

Algorithm 2: Algorithm as a Recursive Function

```

1 Function FnRecursive(some args) is /* algorithm as a
   recursive function */
   Data: Some input data
   these inputs can be displayed on several lines and one input can be
   wider than line's width.
   Result: Same for output data
2   /* this is a comment to tell you that we will now
      really start code */
3   if this is true then /* a simple if but with a comment on
      the same line */
4     we do that, else nothing;
5     /* we will include other if so you can see this is
      possible */
6     if we agree that then
7       we do that;
8     else
9       else we will do a more complicated if using else if;
10      if this first condition is true then
11        we do that;
12      else if this other condition is true then
13        this is done; /* else if */
14      else
15        in other case, we do this; /* else */
16      end
17    end
18  end
19  /* now loops */
20  for  $i = 0$  to  $n$  do
21    a for loop;
22  end
23  while  $i < n$  do
24    a while loop including a repeat–until loop;
25    repeat
26      do this things;
27    until this end condition;
28  end
29  They are many other possibilities and customization possible that you
   have to discover by reading the documentation.
30 end

```



Figure 2.2 MUSTSchoolBadgecolor.pdf - 2

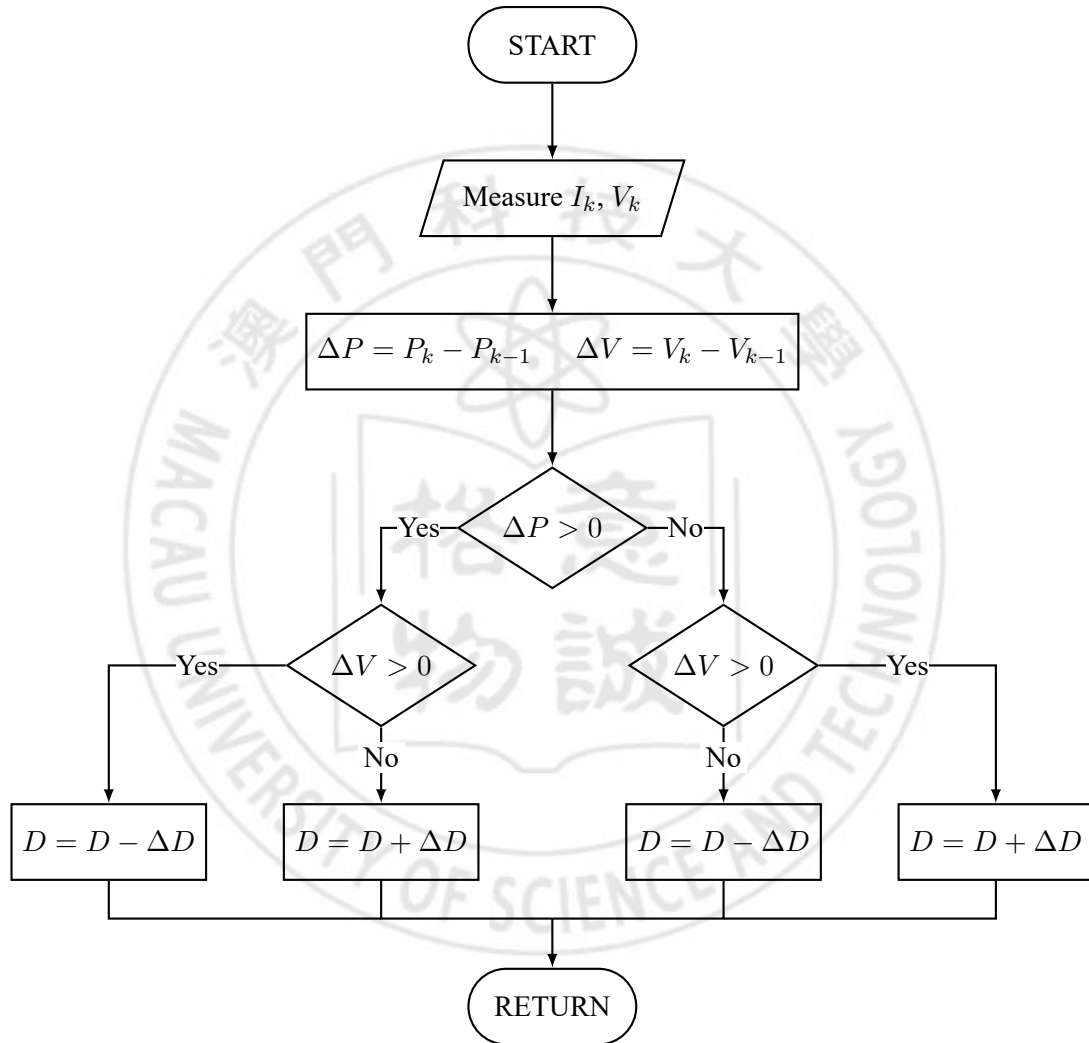


Figure 2.3 Tikz Flowchart

Symbol	Definition
s	Angles of 45° in n-polygon
r	Angles of 90° in n-polygon
l	Angles of 135° in n-polygon
S	The aggregate of all space not matched any piece
P	The aggregate of the weight point position in two-dimensional array
H	Threshold evaluating the probability to search next state
$\eta(p, d)$	Thresholding function of Simulated Annealing

Table 2.2 Notations

2.1.4 Equation

formula example

I Equataion

$$\int_{-\epsilon}^{\infty} dl e^{-l\zeta} \int_{-\epsilon}^{\infty} dl' e^{-l'\zeta} ll' \frac{l' - l}{l + l'} \{3\delta''(l) - \frac{3}{4}t\delta(l)\} = 0. \quad (2.1)$$

$$ds^2 = \left(1 - \frac{q \cos \theta}{r}\right)^{\frac{2}{1+\alpha^2}} \{dr^2 + r^2 d\theta^2 + r^2 \sin^2 \theta d\varphi^2\} - \frac{dt^2}{\left(1 - \frac{q \cos \theta}{r}\right)^{\frac{2}{1+\alpha^2}}}. \quad (2.2)$$

II Multiple-Line Equation

$$\frac{\phi''}{A} + \frac{1}{A} \left(-\frac{1}{2} \frac{A'}{A} + 2 \frac{B'}{B} + \frac{2}{r} \right) \phi' - \frac{2}{r^2} \phi - \lambda \phi (\phi^2 - \eta^2) = 0. \quad (2.3)$$

$$\mathcal{L} = -\frac{1}{4} F_{\mu\nu} F^{\mu\nu} + \bar{\psi} (i\gamma^\mu D_\mu - m) \psi, \quad (2.4)$$

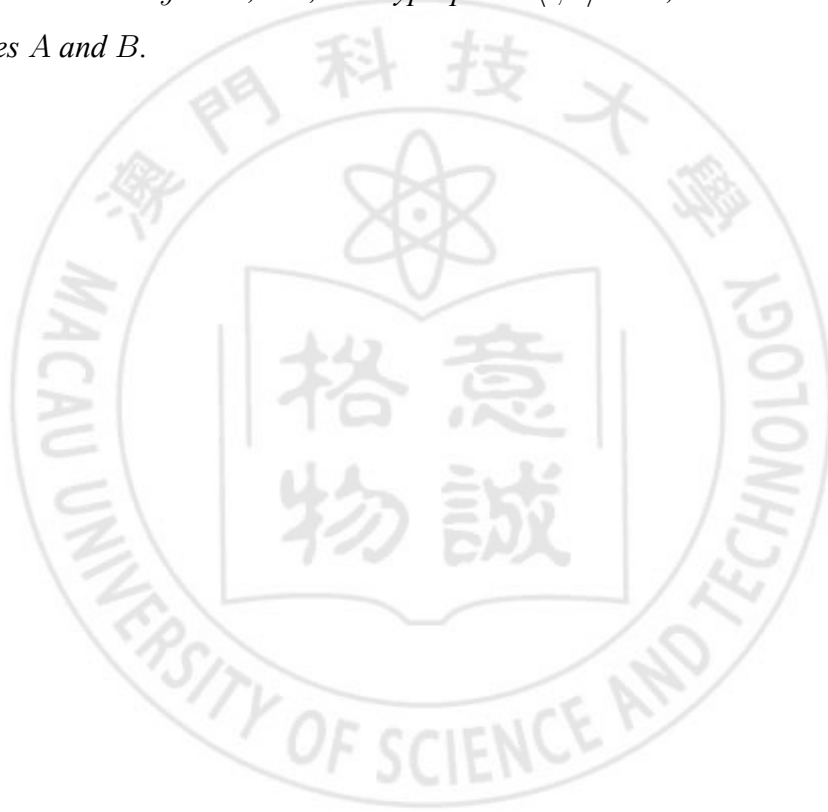
$$S \sim \tilde{\psi} Q_o \tilde{\psi} + g_s^{1/2} \tilde{\psi}^3 + \tilde{\phi} Q_c \tilde{\phi} + g_s \tilde{\phi}^3 + \tilde{\phi} B(g_s^{1/2} \tilde{\psi}) + \dots.$$

III Theorem

Theorem 1 (Separating Axis Theorem). : ² Let A and B be two disjoint nonempty convex subsets of R^n . Then there exist a nonzero vector v and a real number c such that

$$\langle x, v \rangle \geq c \quad \text{and} \quad \langle y, v \rangle \leq c$$

for all x in A and y in B ; i.e., the hyperplane $\langle \cdot, v \rangle = c$, v is normal vector, separates A and B .



²reference from https://en.wikipedia.org/wiki/Hyperplane_separation_theorem

Chapter 3. Chapter Three

Chapter Three' contents.

3.1 Section 3.1

Section 3.1's contents.



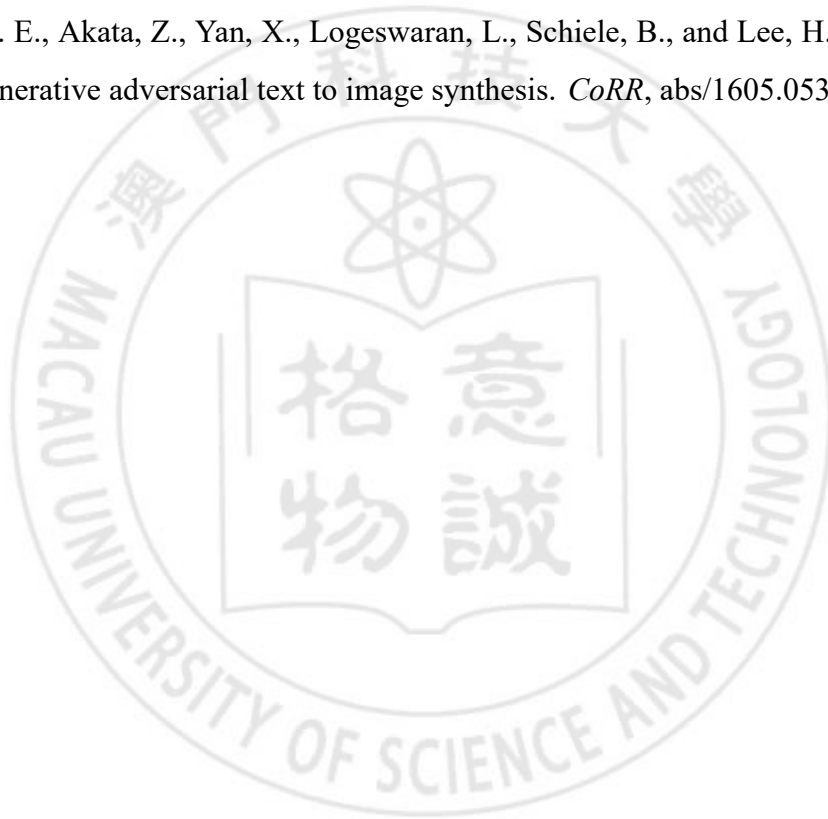
Chapter 4. Chapter Four

Chapter Four's contents.



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- Reed, S. E., Akata, Z., Yan, X., Logeswaran, L., Schiele, B., and Lee, H. (2016). Generative adversarial text to image synthesis. *CoRR*, abs/1605.05396.



Appendices

A Code listing

A.1 Code Cpp

```
1 // leetcode 94, 110...
2 #include <iostream>
3 #include <vector>
4 #include <stack>
5 #include <queue>
6 #include <unordered_map>
7
8 using namespace std;
9
10 class AVL
11 {
12 public:
13 };
14
15 class Node // N-ary tree
16 {
17 public:
18     int val;
19     vector<Node *> children;
20 }
```

```
21     Node() {}
22
23     Node(int _val)
24     {
25         val = _val;
26     }
27
28     Node(int _val, vector<Node *> _children)
29     {
30         val = _val;
31         children = _children;
32     }
33 };
34
35 struct TreeNode
36 {
37     int val;
38     TreeNode *left;
39     TreeNode *right;
40     TreeNode() : val(0), left(nullptr), right(nullptr)
41         {}
42     TreeNode(int x) : val(x), left(nullptr), right(
43         nullptr) {}
44     TreeNode(int x, TreeNode *left, TreeNode *right) :
45         val(x), left(left), right(right) {}
46 };
47
```

```

45 vector<int> res;
46 // N-ary issue

```

A.2 Code Latex

titlepage.sty

```

1 % Title page of Thesis
2 %
3 \newcommand{\titleofthesisC}[1]{\renewcommand{\
   titleofthesisC}{#1}}
4 \titleofthesisC
5 {
6   \vspace*{.5cm}
7   {
8     \bf\sizefont{18pt}
9     \begin{center}
10      \begin{tabular}{p{2cm}<\flushleft} c p{16cm}<\
        flushleft}}
11      題\bf fill 目&\hspace{-4mm}: & \Ctitle \\
12      Title& \hspace{-4mm}: & \Etitle
13      \end{tabular}
14      \end{center}
15    }
16
17   \vspace*{1.5cm}
18   {

```

```

19 % \fontsize{12pt}{\baselineskip}\selectfont
20 \fontsize{12pt}
21
22 \begin{table}[htbp]
23 \centering
24 \begin{tabular}{p{5em}ccc}
25 &\mycell{姓\quad 名}{Name}{\Cname}
26 &\mycell{學\quad 號}{StudentNo.}{\Stuno}
27 &\mycell{學\quad 院}{Faculty}{\Faculty}
28 &\mycell{課\quad 程}{Program}{\Program}
29 &\mycell{專\quad 業}{Major}{\Major}
30 &\mycell{指導教師}{Supervisor}{\Supervisor}
31 &\mycell{日\quad 期}{Date}{\Stoday}
32 \end{tabular}
33 \end{table}
34 }
35 }
36
37 \newcommand{\titleofthesisE}[1]{\renewcommand{\
38 titleofthesisE}{#1}}
39 \titleofthesisE
40 {
41 \begin{center}
42 \bf\fontsize{18pt}\Etitle\
43 \vspace{0.25in}
44 \large
45 by \

```



```

45     \vspace{0.25 in}
46     \large
47     \Ename \\
48     \bf\normalsize
49     (StudentNo.: \Stuno)\\
50     \begin{center}
51         \vspace{0.7 in}
52         \bf\normalsize
53         Supervisor: \Supervisor\\
54         \vspace{0.8 in}
55         \bf\normalsize
56         A thesis\\
57         submitted to the Faculty of Information
58         Technology\\ %(Name of faculty)
59         and the School of Graduate Studies of \\
60         Macau University of Science and Technology\\
61         in partial fulfillment of the requirements for
62         the degree of\\
63         \Degree \\ %(Name of degree)
64         in \\
65         \Major \\ %(Name of major)
66         \vspace{1 in}
67         \today
68     \end{center}

```

Curriculum Vitae

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About Me

Educational Background

2010 - 2011, Cornell University

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2007 - 2010, Cornell University

BS in Computer Science

Awards

Working Experience

Product

Interests

Acknowledgements

I am glad to.....

HE

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April 5, 2022

