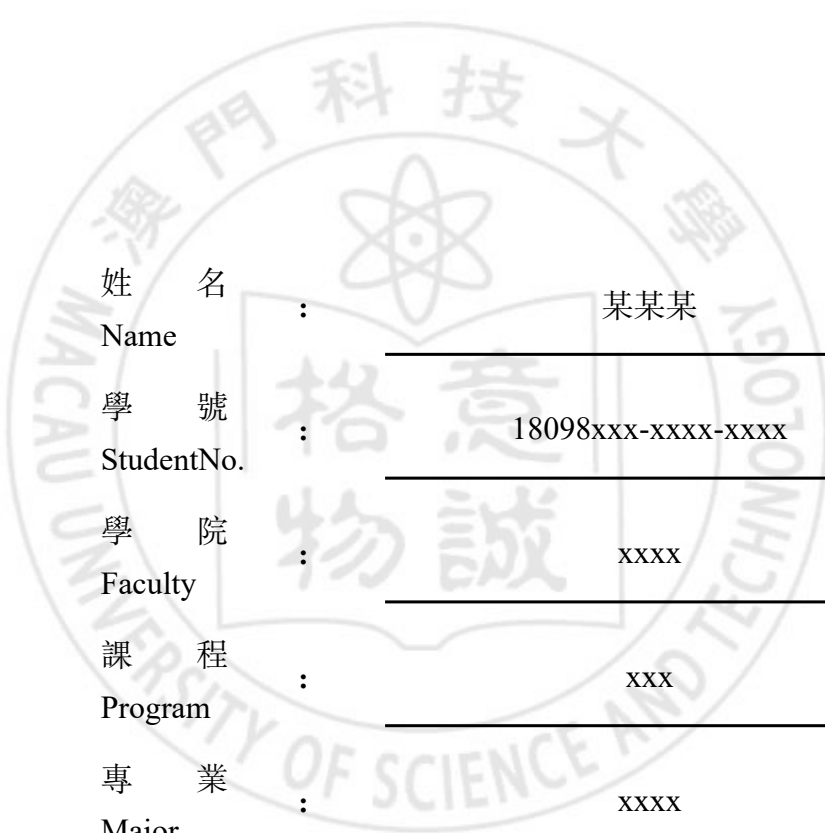


題目：中文題目

Title：GANxxxxxx



姓 名	:	某某某
Name	:	
學 號	:	18098xxx-xxxx-xxxx
StudentNo.	:	
學 院	:	xxxx
Faculty	:	
課 程	:	xxx
Program	:	
專 業	:	xxxx
Major	:	
指導教師	:	xxxx
Supervisor	:	
日 期	:	2022 年 4 月 7 日
Date	:	

**GANxxxxx**

**by**

**HE**

**(StudentNo.: 18098xxx-xxxx-xxxx)**

**Supervisor: xxxx**

**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 7, 2022**

## 摘要

摘要

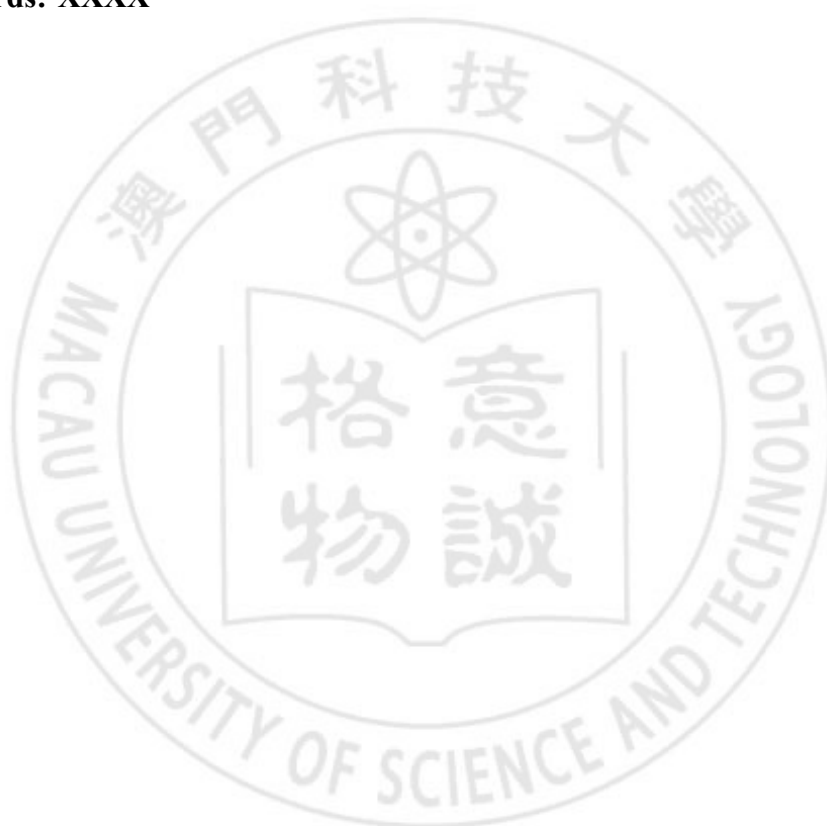
關鍵詞: XXXX



## Abstract

Abstract

**Keywords: XXXX**



## Contents

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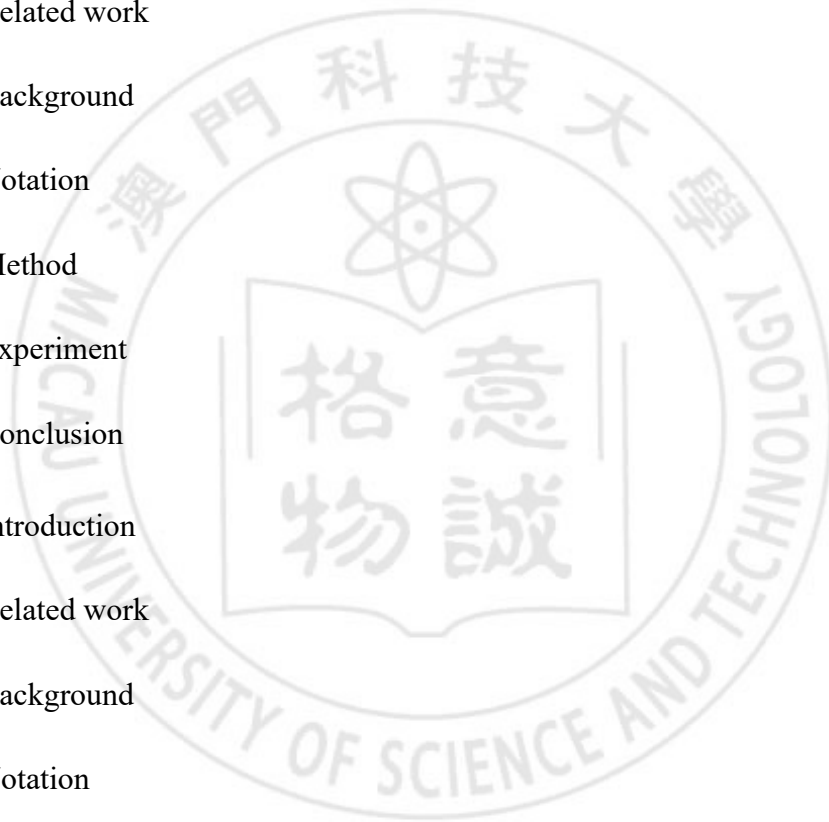


## Chapter 1. Chapter one

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's 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 <sup>1</sup> ....

---

<sup>1</sup>referred 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	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

	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	<b>0.0</b>
Ours	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	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

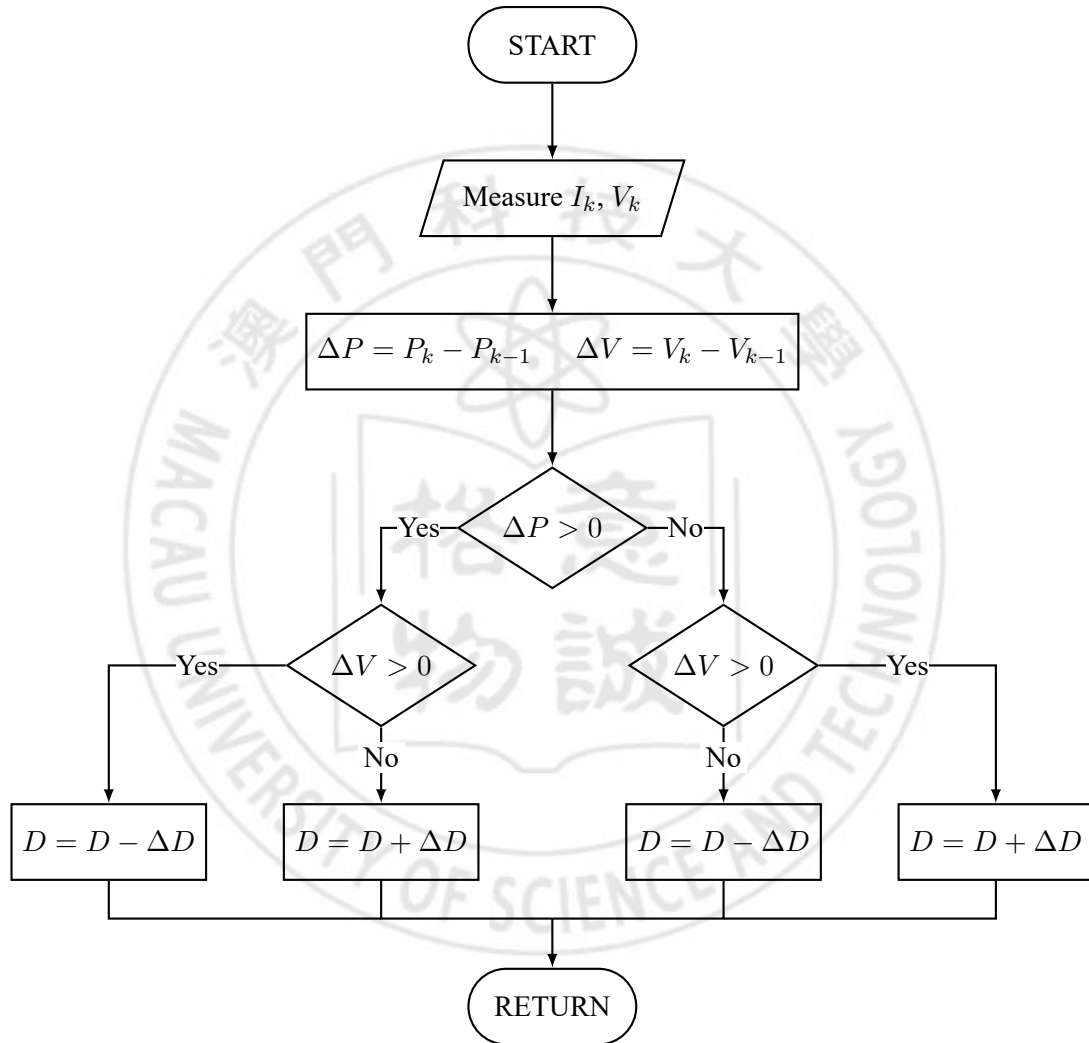


Figure 2.3 Tikz Flowchart

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

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

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

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

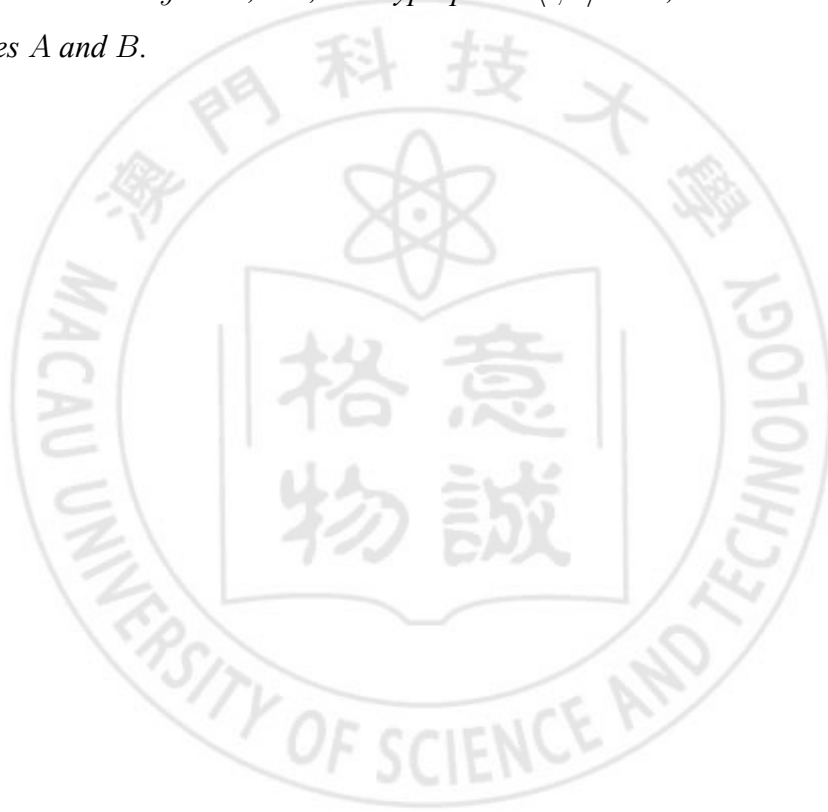


### III Theorem

**Theorem 1** (Separating Axis Theorem). : <sup>2</sup> 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  $B$ .



<sup>2</sup>reference from [https://en.wikipedia.org/wiki/Hyperplane\\_separation\\_theorem](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

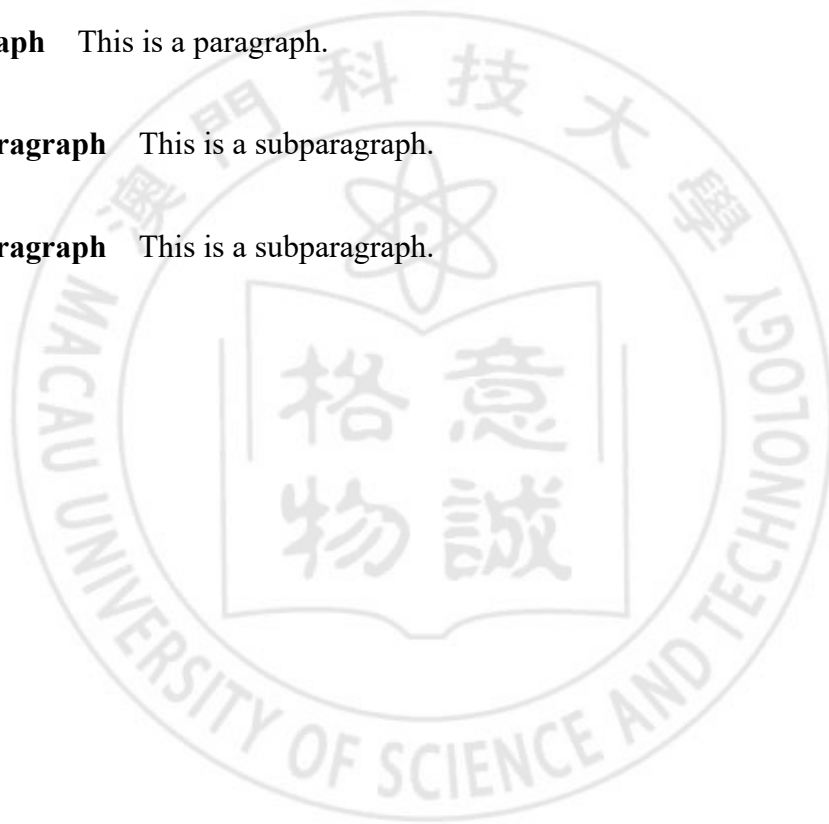
Chapter Four's contents.

**Paragraph** This is a paragraph.

**Paragraph** This is a paragraph.

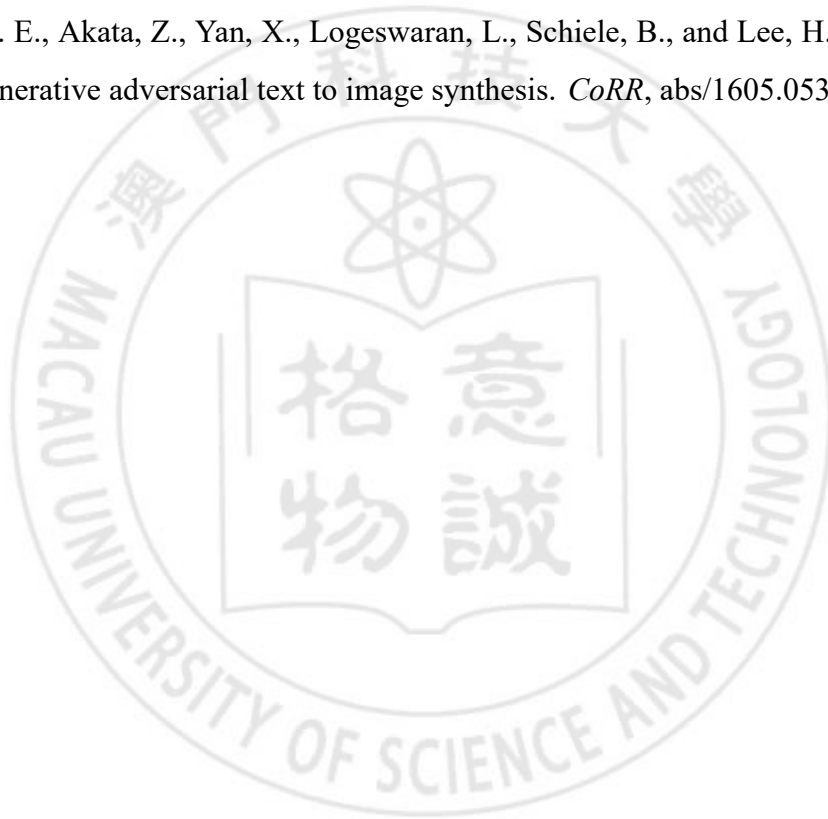
**Sparagraph** This is a subparagraph.

**Sparagraph** This is a subparagraph.



## Bibliography

- Gatys, L. A., Ecker, A. S., and Bethge, M. (2016). Image style transfer using convolutional neural networks. In *2016 IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, pages 2414–2423.
- 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     TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}
42     TreeNode(int x, TreeNode *left, TreeNode *right) : val(x), left(left),
    ↪ right(right) {}
43 };
44
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{2em}<{\flushleft} c p{16em}<{\

```

```

        flushleft}}
11      題\bfill 目&\hspace{-4mm}: & \Ctitle \\
12      Title& \hspace{-4mm}: & \Etitle
13      \end{tabular}
14      \end{center}
15  }
16
17  \vspace*{1cm}
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}{\SupervisorC}
31          &\mycell{日\quad 期}{Date}{\Stoday}
32      \end{tabular}
33      \end{table}
34  }
35  }
36

```

```

37 \newcommand{\titleofthesisE}[1]{\renewcommand{\
    titleofthesisE}{#1}}
38 \titleofthesisE
39 {
40   \begin{center}
41     \bf\sizefont{18pt}\Etitle\\
42     \vspace{0.25in}
43     \large
44     by \\
45     \vspace{0.25in}
46     \large
47     \Ename \\
48     \bf\normalsize
49     (StudentNo.: \Stuno)\\
50     \begin{center}
51       \vspace{0.7in}
52       \bf\normalsize
53       Supervisor: \SupervisorE\\
54       \vspace{0.8in}
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\\
       in partial fulfillment of the requirements for
       the degree of\\

```



```
61      \Degree \ \ %(Name of degree)
62      in \
63      \Major \ \ %(Name of major)
64      \vspace{1in}
65      \today
66      \end{center}
67      \end{center}
68  }
```



## Curriculum Vitae

**HE**

[john@mailme.com](mailto:john@mailme.com) +1 2345 6789 [www.myweb.com](http://www.myweb.com)

New York, USA



### About Me

#### **Educational Background**

---

**2010 - 2011, Cornell University**

MEng in Computer Science

**2007 - 2010, Cornell University**

BS in Computer Science

#### **Awards**

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#### **Working Experience**

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#### **Product**

---

#### **Interests**

---

## Acknowledgements

I am glad to.....

HE

xxxx

April 7, 2022

