題目：中文題目

Title：GANxxxxx

姓　名 Name	：	某某某
學　號 StudentNo.	：	18098xxx-xxxx-xxxx
學　院 Faculty	：	xxxx
課　程 Program	：	xxx
專　業 Major	：	xxxx
指導教師 Supervisor	：	xxxx
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GANxxxxx

by

HE

(StudentNo.: 18098xxx-xxxx-xxxx)

Supervisor: xxxx

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in

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摘要

摘要

關鍵詞: XXXX

Abstract

Abstract

Keywords: XXXX

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

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- 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

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2.1.2 Algorithms

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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] ....

[1] 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	**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.

begin
  $V \longleftarrow U$
  $S \longleftarrow \emptyset$
  for $x \in X$ **do**
    $NbSuccInS(x) \longleftarrow 0$
    $NbPredInMin(x) \longleftarrow 0$
    $NbPredNotInMin(x) \longleftarrow |ImPred(x)|$
  end
  for $x \in X$ **do**
    if $NbPredInMin(x) = 0$ **and** $NbPredNotInMin(x) = 0$ **then**
      $AppendToMin(x)$
    end
  end
  while $S \neq \emptyset$ **do**
    remove x from the list of T of maximal index
    while $|S \cap ImSucc(x)| \neq |S|$ **do**
      for $y \in S - ImSucc(x)$ **do**
        { remove from V all the arcs zy : }
        for $z \in ImPred(y) \cap Min$ **do**
          remove the arc zy from V
          $NbSuccInS(z) \longleftarrow NbSuccInS(z) - 1$
          move z in T to the list preceding its present list
          {i.e. If $z \in T[k]$, move z from $T[k]$ to $T[k-1]$}
        end
        $NbPredInMin(y) \longleftarrow 0$
        $NbPredNotInMin(y) \longleftarrow 0$
        $S \longleftarrow S - \{y\}$
        $AppendToMin(y)$
      end
    end
    $RemoveFromMin(x)$
  end
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

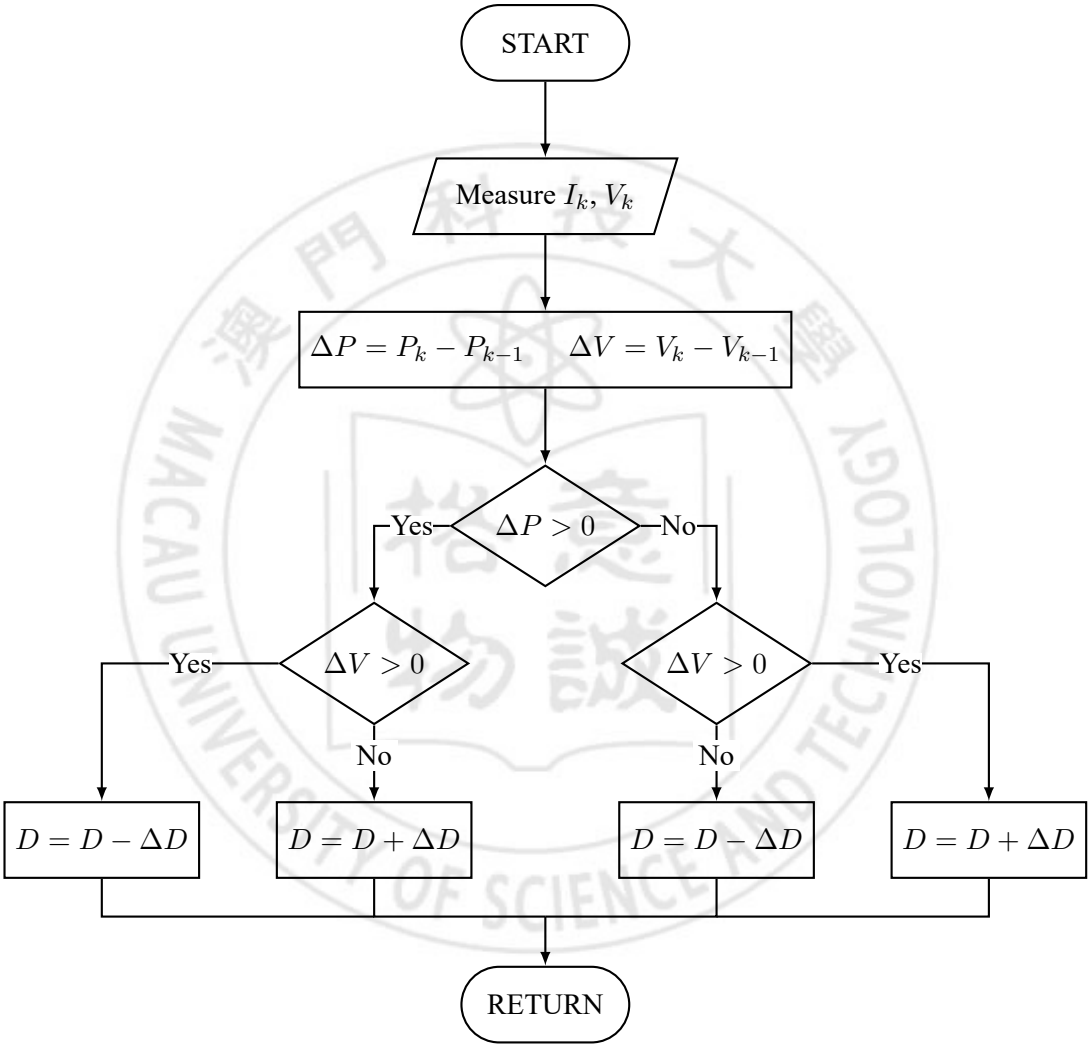

Figure 2.3 Tikz Flowchart

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 Equtaion

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

$$ds^2 = (1-\frac{qcos\theta}{r})^{\frac{2}{1+\alpha^2}} \{dr^2 + r^2 d\theta^2 + r^2 sin^2\theta d\varphi^2\} - \frac{dt^2}{(1-\frac{qcos\theta}{r})^{\frac{2}{1+\alpha^2}}}\,. \tag{2.2}$$

II Multiple-Line Equation

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

$$\begin{aligned} &\mathcal{L} = -\frac{1}{4}F_{\mu\nu}F^{\mu\nu} + \bar{\psi}(i\gamma^\mu D_\mu - m)\psi\,, \\ &S \sim \tilde{\psi}Q_o\tilde{\psi} + g_s^{1/2}\tilde{\psi}^3 + \tilde{\phi}Q_c\tilde{\phi} + g_s\tilde{\phi}^3 + \tilde{\phi}B(g_s^{1/2}\tilde{\psi}) + \cdots\,. \end{aligned} \tag{2.4}$$

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.

[2] reference 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.

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

```cpp
// leetcode 94, 110...
#include <iostream>
#include <vector>
#include <stack>
#include <queue>
#include <unordered_map>

using namespace std;

class AVL
{
public:
};

class Node // N-ary tree
{
public:
    int val;
    vector<Node *> children;

    Node() {}

    Node(int _val)
    {
        val = _val;
    }

    Node(int _val, vector<Node *> _children)
    {
        val = _val;
```

```
        children = _children;
    }
};

struct TreeNode
{
    int val;
    TreeNode *left;
    TreeNode *right;
    TreeNode() : val(0), left(nullptr), right(nullptr) {}
    TreeNode(int x) : val(x), left(nullptr), right(nullptr) {}
    TreeNode(int x, TreeNode *left, TreeNode *right) : val(x), left(left),
    ↪ right(right) {}
};

vector<int> res;
// N-ary issue
```

A.2 Code Latex

titlepage.sty

```
% Title page of Thesis
%
\newcommand{\titleofthesisC}[1]{\renewcommand{\
    titleofthesisC}{#1}}
\titleofthesisC
{
  \vspace*{.5cm}
  {
    \bf\sizefont{18pt}
    \begin{center}
    \begin{tabular}{p{2em}<{\flushleft} c p{16em}<{\
```

```
        flushleft}}
      題\hfill 目&\hspace{-4mm}:  & \Ctitle \\
      Title& \hspace{-4mm}:  & \Etitle
    \end{tabular}
    \end{center}
  }

  \vspace*{1cm}
  {
    % \fontsize{12pt}{\baselineskip}\selectfont
    \sizefont{12pt}

    \begin{table}[htbp]
    \centering
      \begin{tabular}{p{5em}ccc}
        &\mycell{姓\qquad 名}{Name}{\Cname}
        &\mycell{學\qquad 號}{StudentNo.}{\Stuno}
        &\mycell{學\qquad 院}{Faculty}{\Faculty}
        &\mycell{課\qquad 程}{Program}{\Program}
        &\mycell{專\qquad 業}{Major}{\Major}
        &\mycell{指導教師}{Supervisor}{\SupervisorC}
        &\mycell{日\qquad 期}{Date}{\Stoday}
      \end{tabular}
    \end{table}
  }
}

```

```
\newcommand{\titleofthesisE}[1]{\renewcommand{\
    titleofthesisE}{#1}}
\titleofthesisE
{
  \begin{center}
    \bf\sizefont{18pt}\Etitle\\
    \vspace{0.25in}
    \large
    by \\
    \vspace{0.25in}
    \large
    \Ename \\
    \bf\normalsize
     (StudentNo.: \Stuno)\\
    \begin{center}
      \vspace{0.7in}
      \bf\normalsize
        Supervisor: \SupervisorE\\
      \vspace{0.8in}
      \bf\normalsize
        A thesis\\
        submitted to the \Faculty\\ % (Name of faculty
            )
        and the School of Graduate Studies of \\
        Macau University of Science and Technology\\
        in partial fulfillment of the requirements for
            the degree of\\
```

```
61          \Program \\ %(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 +1 2345 6789 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

Working Experience

Product

Interests

Acknowledgements

I am glad to.....

HE

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