題目： 中文題目

Title： GANxxxxx

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GANxxxxx

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in

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April 25, 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, ...

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

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**
REM 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
```

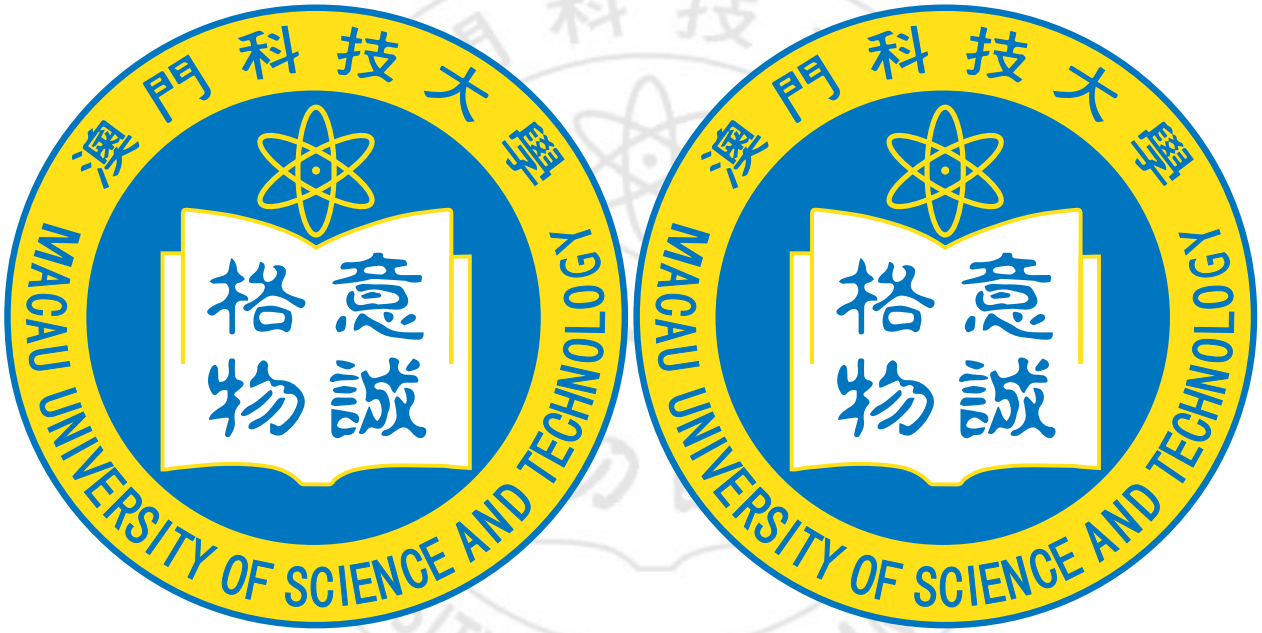

Figure 2.1 MUSTSchoolBadgecolor.pdf

Figure 2.2 MUSTSchoolBadgecolor.pdf - 2

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

II Tikz Figure

In Figure 2.3 [1] ....

2.1.4 Equation

formula example

I Equtaion

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

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

II Multiple-Line Equation

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

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

[1] referred from https://latexdraw.com/draw-flowcharts-latex-tutorial/

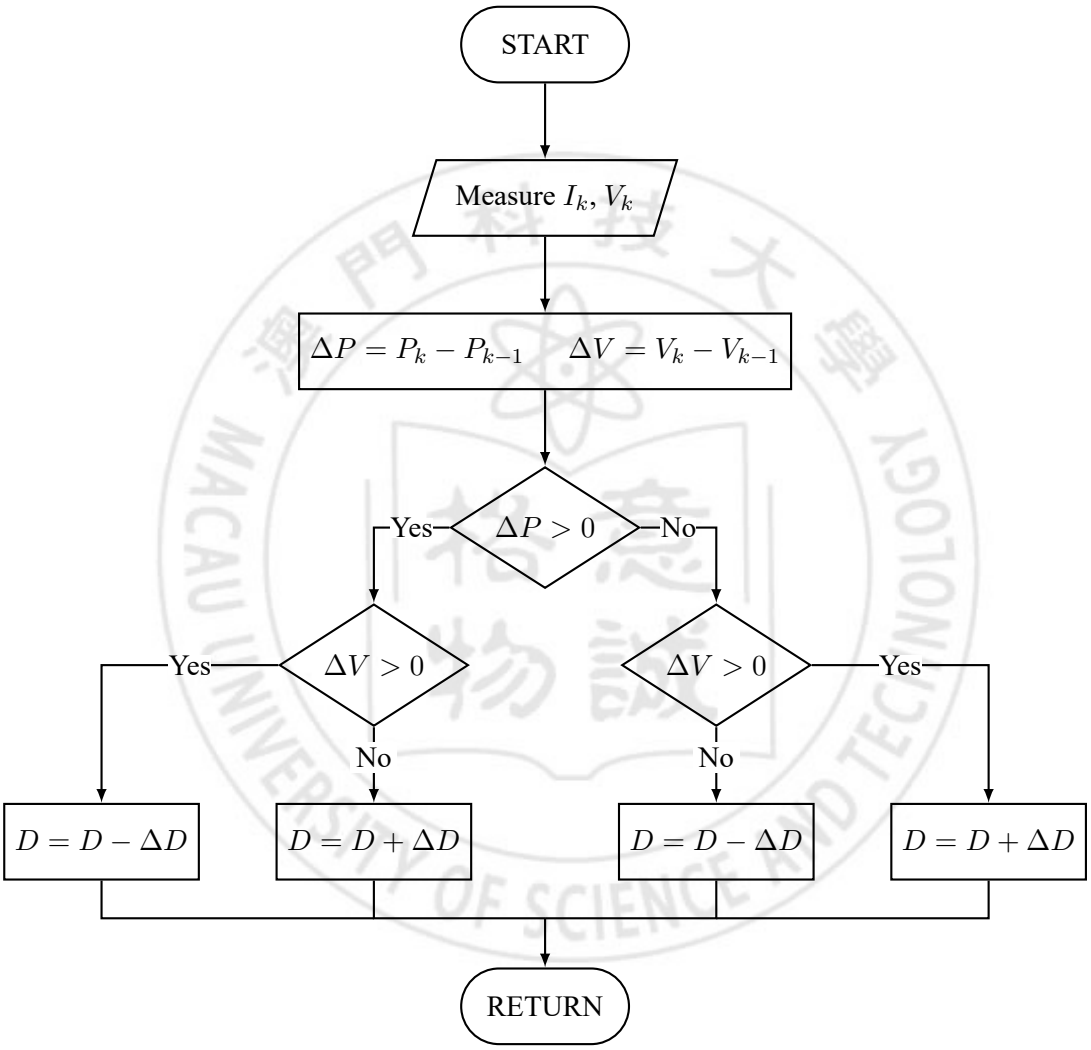

Figure 2.3 Tikz Flowchart

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;
```

```
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\hfill 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
```

```
    \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}
```

```
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\\ % (Name of faculty)
58            and the School of Graduate Studies of \\
59            Macau University of Science and Technology\\
60            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

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About Me

Educational Background

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Awards

Working Experience

Product

Interests

Acknowledgements

I am glad to.....

HE

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