Problem Chosen	2025	Team Control Number
C	**MCM/ICM** Summary Sheet	**2506135**

An MCM Paper Made by Team 1234567

Summary

Here is the abstract of your paper.

Firstly, that is ...

Secondly, that is ...

Finally, that is ...

$F(\omega) = \int_{-\infty}^{\infty} f(t)e^{-i\omega t}\,dt$

$f(t) = \frac{1}{2\pi} \int_{-\infty}^{\infty} F(\omega)e^{i\omega t}\,d\omega$

Keywords 1

Contents

1 Introduction

1.1 Problem Background

Here is the problem background ...

Two major problems are discussed in this paper, which are:

- Doing the first thing.

- Doing the second thing.
  doing
  doing11

1.2 Restatement of Problem

A literatrue[1] say something about this problem ...

1.3 Our work

We do such things ...

1. We do ...

2. We do ...

3. We do ...

2 Assumptions

3 Notations

The primary notations used in this paper are listed in Table 1.

Table 1: Notations

Symbol	Definition
A	the first one
b	the second one
α	the last one

4 Data Preprocessing

4.1 Basic Data Preprocessing

4.2 Data Mining

5 Task1:

5.1 Details about Model 1

The detail can be described by equation (1):Equation 1:

$$\alpha + \beta = \gamma \tag{1}$$

$$\alpha + \beta = \gamma$$
$$\alpha$$

$$\begin{aligned}
A + B + C + D + E + F \\
= G + Q + W + E + R + T + Y \\
= A + S + D + F + G + H + J
\end{aligned} \tag{2}$$

$$F(x) = \begin{cases} 0 & ,\text{if } x < 0 \\ x+1 & ,\text{if } x > 0 \\ 1 & ,\text{otherwise} \end{cases} \tag{3}$$

Table 2: Variable Name

Variable Name	*Code*	Definition
Whether Host Country	*is host*	Whether the country is the host(1 for host,0 for non-host)
Medal Expectation Increment *Personnel Expectation lncrement	*medal_increment * personnel_increment*	Product of medal expectation increment and personnel expectation increment
Sport Advantage Coefficient	*sport_adv*	Advantage coefficient of a specific sport
Country Level	*country_lvl*	The level of the country in the competition (ordered by rank)

Table 2: Variable Name (Continued)

Project Medal Expectation /Project Personnel Expection	*sport_medal _per_ person*	Ratio of sport medals to projected personnel for a specific sport
Gold Medal Probability	*gold_prob*	Probability of an athlete winning a gold medal
Silver Medal Probability	*silver_prob*	Probability of an athlete winning a silver medal
Bronze Medal Probability	*silver_prob*	Probability of an athletewinning a bronze medal
No Medal Probability	*no_medal_probe*	Probability of an athlete winning no medal

6 Task2:

6.1 Conclusion of Model 2

The results are shown in Figure 1, where t denotes the time in seconds, and c refers to the concentration of water in the boiler.
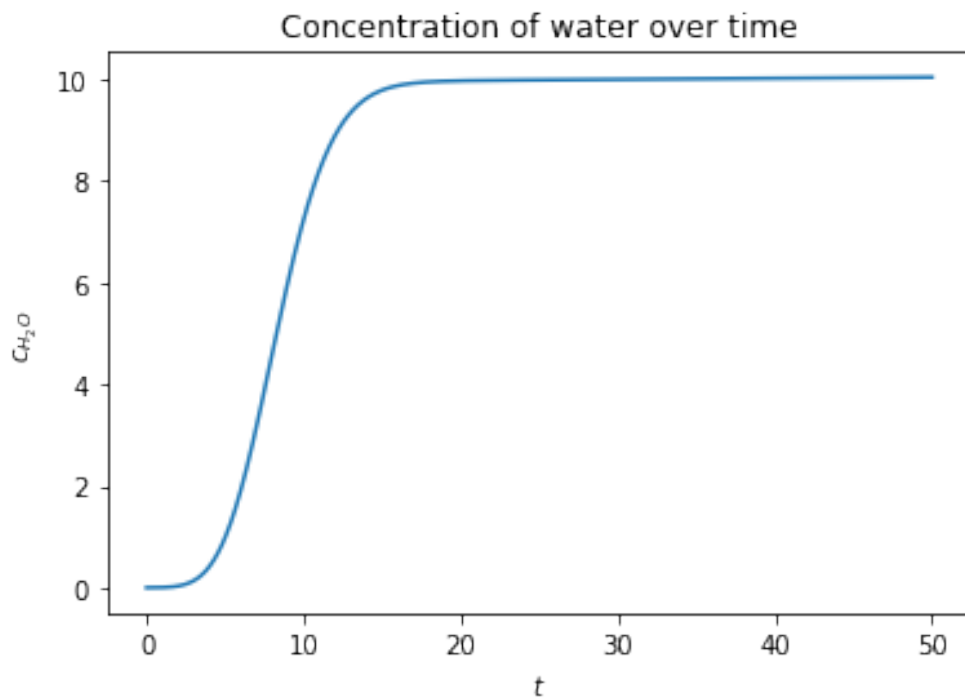

Figure 1: The result of Model 2

6.2 Commetary on Model 2

The instance of long and wide tables are shown in Table **??**.

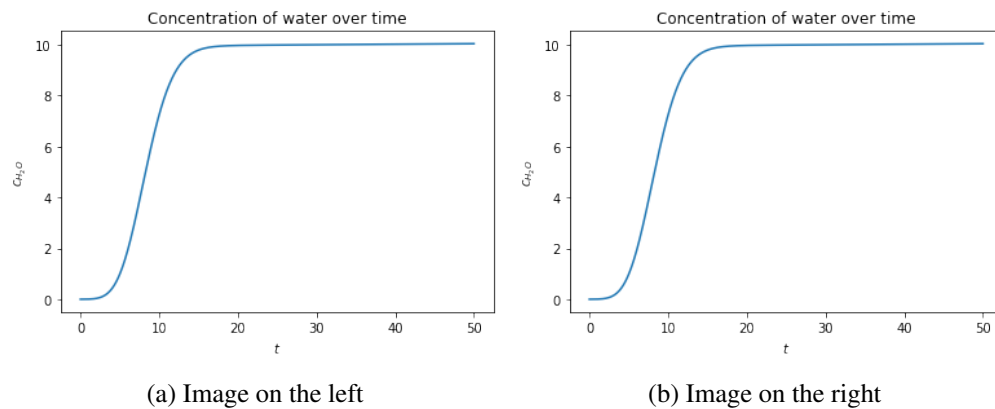Figure 2 gives an example of subfigures. Figure 2a is on the left, and Figure 2b is on the right.

(a) Image on the left   (b) Image on the right

Figure 2: Two images

7 Task3

8 Task4

9 Sensitivity Analysis

10 Model Evaluation

10.1 Strengths

- First one...

- Second one ...

10.2 Weaknesses

- Only one ...

11 Conclusion

Memorandum

To: Heishan Yan
From: Team 1234567
Date: October 1st, 2019
Subject: A better choice than MS Word: LaTeX

In the memo, we want to introduce you an alternate typesetting program to the prevailing MS Word: LaTeX. In fact, the history of LaTeX is even longer than that of MS Word. In 1970s, the famous computer scientist Donald Knuth first came out with a typesetting program, which named TeX . . .

Firstly, . . .

Secondly, . . .

Lastly, . . .

According to all those mentioned above, it is really worth to have a try on LaTeX!

References

[1] Einstein, A., Podolsky, B., & Rosen, N. (1935). Can quantum-mechanical description of physical reality be considered complete?. *Physical review*, 47(10), 777.

[2] *A simple, easy LaTeX template for MCM/ICM: EasyMCM*. (2018). Retrieved December 1, 2019, from `https://www.cnblogs.com/xjtu-blacksmith/p/easymcm.html`

Appendix A: Further on LATEX

To clarify the importance of using LATEX in MCM or ICM, several points need to be covered, which are . . .

To be more specific, . . .

All in all, . . .

Anyway, nobody **really** needs such appendix . . .

Appendix B: Program Codes

Here are the program codes we used in our research.

test.py

```python
# Python code example
for i in range(10):
    print('Hello, world!')
```

test.m

```matlab
% MATLAB code example
for i = 1:10
    disp("hello, world!");
end
```

test.cpp

```cpp
// C++ code example
#include <iostream>
using namespace std;

int main() {
    for (int i = 0; i < 10; i++)
        cout << "hello, world" << endl;
    return 0;
}
```