

The XXX problem

Summary

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Keywords: Matlab; Mathematical modelling.

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Miao Fangran, Wang Xizhi, Wang Zhuo

February 7, 2021

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1 Introduction

1.1 Restatement of The Problem

1.2 Analysis of The Problem

1.3 Assumptions

2 The Buildup of The model and Calculating

From what is analyzed before, we can conclude that:

$$\frac{\partial(FR)}{\partial(ER)} = C_1 \quad (1)$$

$$\frac{\partial \ln(FR)}{\partial M} = C_2 \quad (2)$$

3 The Model Results

4 Validating the Model

5 Conclusions

6 A Summary

7 Evaluate of the Mode

8 Strengths and weaknesses

test
test
test!
test.

8.1 Strengths

- **Applies widely**

This system can be used for many types[?] of airplanes, and it also solves the interference during the procedure of the boarding airplane, as described above we can get to the optimization boarding time. We also know that all the service is automate.

- **Improve the quality of the airport service**

Balancing the cost of the cost and the benefit, it will bring in more convenient for airport and passengers. It also saves many human resources for the airline.

-

Appendices

Appendix A First appendix

In addition, your report must include a letter to the Chief Financial Officer (CFO) of the Goodgrant Foundation, Mr. Alpha Chiang, that describes the optimal investment strategy, your modeling approach and major results, and a brief discussion of your proposed concept of a return-on-investment (ROI). This letter should be no more than two pages in length.

Dear, Mr. Alpha Chiang

Sincerely yours,

Your friends

Here are simulation programmes we used in our model as follow.

Input matlab source:

```
function [t,seat,aisle]=OI6Sim(n,target,seated)
pab=rand(1,n);
for i=1:n
    if pab(i)<0.4
        aisleTime(i)=0;
    else
        aisleTime(i)=trirnd(3.2,7.1,38.7);
    end
end
end
```

Appendix B Second appendix

some more text **Input C++ source:**

```
//=====
// Name      : Sudoku.cpp
// Author    : wzlf11
// Version   : a.0
// Copyright  : Your copyright notice
// Description : Sudoku in C++.
//=====

#include <iostream>
#include <cstdlib>
#include <ctime>

using namespace std;

int table[9][9];

int main() {
```

```
for(int i = 0; i < 9; i++){
    table[0][i] = i + 1;
}

srand((unsigned int)time(NULL));

shuffle((int *)&table[0], 9);

while(!put_line(1))
{
    shuffle((int *)&table[0], 9);
}

for(int x = 0; x < 9; x++){
    for(int y = 0; y < 9; y++){
        cout << table[x][y] << " ";
    }

    cout << endl;
}

return 0;
}
```
