

acotsp

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Chapter 1

Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

city	5
exception	
FileNotFoundException	5
OptimizationProblem	
TspProblem	5

Chapter 2

Class Index

2.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

city	5
FileNotFoundException	5
TspProblem Travelling Salesman Problem libaco implemenation	5

Chapter 3

Class Documentation

3.1 city Struct Reference

Public Attributes

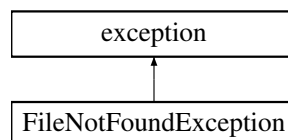
- int **num**
- double **coord_x**
- double **coord_y**

The documentation for this struct was generated from the following file:

- include/acotsp/tsp.h

3.2 FileNotFoundException Class Reference

Inheritance diagram for FileNotFoundException:



Public Member Functions

- **FileNotFoundException** (const char *filepath)
- const char * **what** () const throw ()

The documentation for this class was generated from the following files:

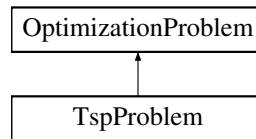
- include/acotsp/tsp.h
- src/tsp.cpp

3.3 TspProblem Class Reference

Travelling Salesman Problem libaco implemenation.

```
#include <tsp.h>
```

Inheritance diagram for TspProblem:



Public Member Functions

- **TspProblem** (Matrix< unsigned int > *distances)
- unsigned int **get_max_tour_size** ()
- unsigned int **number_of_vertices** ()
- std::map< unsigned int, double > **get_feasible_start_vertices** ()
- std::map< unsigned int, double > **get_feasible_neighbours** (unsigned int vertex)
- double **eval_tour** (const std::vector< unsigned int > &tour)
- double **pheromone_update** (unsigned int v, double tour_length)
- void **added_vertex_to_tour** (unsigned int vertex)
- bool **is_tour_complete** (const std::vector< unsigned int > &tour)
- std::vector< unsigned int > **apply_local_search** (const std::vector< unsigned int > &tour)
- void **cleanup** ()

3.3.1 Detailed Description

Travelling Salesman Problem libaco implemenation.

The documentation for this class was generated from the following files:

- include/acotsp/tsp.h
- src/tsp.cpp

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FileNotFoundException, [5](#)

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