Lab Exercise Part 1 e 2??

Alexandre Rodrigues (2039952)

January 14, 2022

1 Introduction

...

2 Technical Approach

2.1 Instancing

... Class 1 - Random
Class 2 - Domain specific random How...

2.2 part2

Used tabu search or genetic or various.... Used from moodle?? Added: clever initial solution, intesification, diversification, 3 opt instead of 2 opt, alterating ...

3 Results

Tested 3,4,5 instance for each n and ...

n	**class1**	**class2**
5	0.15	
10	0.25	
20		
30		
50		
70		
100		
150		
200		

Table 1: Average Time

Assuming a max time as 20 seconds.... we can solve for up to ?? nodes.
Class 1 vs Class 2 ...
Tested 3,4,5 instance for each n and ...

n	**class1**	**class2**
5	0.15	
10	0.25	
20		
30		
50		
70		
100		
150		
200		

Table 2: Average Time

n	**sol**	**optimal**	**cplex heuristic**
5	40	30	N/A
10	100	90	N/A
20			N/A
30			N/A
50			
70			
100			
150			
200			

Table 3: Solution

Assuming a max time as 20 seconds.... we can solve for up to ?? nodes.
Class 1 vs Class 2 ...
std. deviation of ...

4 Conclusions