

Fundamentals of Artificial Intelligence Assignment

2- Solving the Travelling Salesman Problem with Genetic Algorithms

Craig Heptinstall Crh13- 110005643
SEM6120
Institute of Computer Science
Aberystwyth University

Abstract—

I. INTRODUCTION

A. *Travelling Salesman Problem*

II. GENETIC ALGORITHMS

A. *GA Scenarios*

B. *Types of GA's*

C. *Applications of GA's*

III. PROPOSED SOLUTION

A. *Selected and considered GA's*

B. *Application structure*

C. *Comparison of application results*

IV. OVERALL FINDINGS AND CONCLUSION

A. *Improvements to proposed solution*

REFERENCES

- [1] B.J. Copeland, *What is AI?*,
[www.alanturing.net/turing_archive/pages/
referencearticles/whatisai.html](http://www.alanturing.net/turing_archive/pages/referencearticles/whatisai.html), 2000
- [2] N. Bostrom, E. Yudkowsky, *The Ethics of Artificial Intelligence*, Cambridge Handbook of Artificial Intelligence, 2011