ROYAL HOLLOWAY, UNIVERSITY OF LONDON

FULL UNIT PROJECT

FINAL PROJECT REPORT

Cooperative Strategies in Multi-Agent Systems

Author
James KING

Supervisor
Prof. Kostas STATHIS

October 26, 2018

Acknowledgements

Contents

List of Figures

List of Tables

Abstract

Hello this is my abstract

https://users.ece.cmu.edu/ koopman/essays/abstract.html

Chapter 1

Introduction

How to structure:

- Intoduction and review on past work on indirect reciprocity and the evolution of cooperation
- Methods:
    - My model of reciprocity, it's variables etc.
    - System design (Prolog + environ)
    - Interesting programming techniques
    - Software engineering techniques, tools and processes
- Results
    - Analysis and evaluation of the results produced by my model
- Discussion and Conclusion
    - Impacts in real life and intelligent agents
    - Limitations of the system and how this could be improved
    - Issues in the development process and how these could have been avoided/accounted for
- Professional issues

Chapter 2

Review of Literature

Evol Coop [1] Milestone: The report should describe the theory behind indirect reciprocity and its strategies in relation to game-theory
Milestone: The report should describe the link between indirect reciprocity theory and real life biological and intelligent agent interactions

Chapter 3

Contents and Knowledge

Methods Milestone: The report should describe the onlookers and gossip aspects of indirect reciprocity

Milestone: The report should contain a design of the web application and environment, Prolog service and agents, and the connection between them

Milestone: The report should provide an analysis and evaluation of strategies in indirect reciprocity tournaments

Milestone: The report should contain a discussion of the software engineering techniques, tools and processes used and issues encountered

Milestone: The report should contain any interesting programming techniques employed to develop the final prototype

Chapter 4

Discussion and conclusions

Discussion

Bibliography

[1] Robert Axelrod and William D. Hamilton. The evolution of cooperation. *Science*, 211:1390–1396, 1981.

Professional Issues

Professional Issues