

Vienna University of Technology



Faculty of Informatics

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Bachelor Thesis

Mastery of Divserse Computer Games using Generation Based Learning

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September xx, 2018

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Abstract

Abstract (different language)

Acknowledgement

Contents

1	Intr	oduction	1
	1.1	Motivation and Problem Statement	1
	1.2	Results	1
		1.2.1 Some References	1
	1.3	Thesis Structure	1
2	Rela	ated Work	3
	2.1	Genetics Algorithms, genetic programs	3
	2.2	Artificial Neuronal Networks	3
	2.3	NEAT	3
	2.4	Frameworks	3
3	Gen	eration Learning in Computer Games	5
	3.1	MarI/O	5
	3.2	Machine Learning Flappy Bird	5
	3.3	SnakeFusion	5
	3.4	Conclusion	5
4	Con	nparison and Meta-Analysis	7
	4.1	Concepts Section 1	7
	4.2	Conclusion	7
5	Con	clusion	9
	5.1	Stuff	9
	5.2	Future Work	9
Α	Exa	mple Appendix	11
	Δ 1	Annendix Section 1	11

Introduction

Some people worry that artificial intelligence will make us feel inferior, but then, anybody in his right mind should have an inferiority complex every time he looks at a flower.

— Alan Kay (Computer Scientist)

https://sokogskriv.no/en/writing/structure/structuring-a-thesis/ http://www.charleslipson.com/How to-write-a-thesis.htm

1.1 Motivation and Problem Statement

[Jurgens:2000, Jurgens:1995, Miede:2011, Kohm:2011, Apple:keynote:2010, Apple:numbers:2010, Apple:pages:2010]

1.2 Results

1.2.1 Some References

[WEB:GNU:GPL:2010, WEB:Miede:2011]

1.3 Thesis Structure

Chapter 2

Chapter ??

Chapter ??

Chapter ??

Chapter 5

Related Work

2.1 Genetics Algorithms, genetic programs

https://www.quora.com/Whats-the-difference-between-Genetic-Algorithms-and-Genetic-Programming http://outlace.com/miniga.html https://stackoverflow.com/questions/1402370/when-should-i-use-genetic-algorithms-as-opposed-to-neural-networks

2.2 Artificial Neuronal Networks

https://stackoverflow.com/questions/1402370/when-should-i-use-genetic-algorithms-as-opposed-to-neural-networks

2.3 **NEAT**

2.4 Frameworks

Generation Learning in Computer Games

3.1 Marl/O

Graph of population. Differences between runs

special behaviour

3.2 Machine Learning Flappy Bird

special behaviour!!!

3.3 SnakeFusion

special behaviour

3.4 Conclusion

Comparison and Meta-Analysis

- 4.1 Concepts Section 1
- 4.2 Conclusion

Conclusion

By far, the greatest danger of Artificial
Intelligence is that people conclude too early that
they understand it.

— Eliezer S. Yudkowsky (Artificial Intelligence Researcher)

- 5.1 Stuff
- 5.2 Future Work

Example Appendix

A.1 Appendix Section 1

Alpha	Beta	Gamma
0	1	2
3	4	5

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List of Figures

List of Tables

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Declaration

You can put your declaration here, to declare that you have completed your work					
solely and only with the help of the references you mentioned.					
Vienna, September xx, 2018					
Manuel Esberger					