PhD Corrections

1.1 General

	Use of the word chaotic/chaos could be confusing
(KS) Terminology	Renamed initial phase of the swarms development to 'disor-
	ganised' throughout.
(KS) Split Chap-	hline Moved simulation into Chapter 2. Moved data aggre-
ter 3	gation into appendix.

1.2 Abstract

(KS) type	nodes
(KS) typo	agents

1.3 Introduction

(KS) Section 1.1 explan boid-based	boid-based Paragraph extended to include reference and comparison
(KS) Section 1.3 typo	fire service [111], as fire service [111] as
(KS) Section 1.5	anomalies 'healing' anomalies thus 'healing'
(KS) Section 1.5	clarify Hoff reference extended sentence to include message propagation reduction

1.4 Bibliography

(PJ & KS) Dates in references are appearing twice	References 6, 7, 9, 10, 11, 12, 14, 15, 16, 18, 20, 24, 25, 28, 33, 37, 41, 47, 50, 52, 54, 55, 56, 58, 59, 61, 65, 67, 69, 71, 74, 76, 77, 78, 79, 82, 86, 90, 93, 94, 96, 98, 100, 113, 118, 126, 127, 130, 137, 139, 140, 141, 142, 146, 147, 150, 151, 152, 154, 155, 156, 157, 158, 161
(KS) No dates	References 21, 60, 70, 75, 92, 135
(KS) References with no publisher	References 27, 30, 36, 42, 44, 48, 49, 51, 52, 53, 57, 60, 63, 68, 73, 81, 83, 84, 87, 88, 89, 101, 103, 108, 109, 115, 132, 149 ?

(KS) References with capitalised Author	References 88, 149
(KS) References requiring page numbers	Reference 117

1.5 Abstract

1.6 Introduction

1.7 Methods Techniques Tools

(DI) Clarify	The coordinates of an agent
(PJ) Clarify	The position vector is given by the coordinates of an agent
(KS) Section 2.3	described in 2.2
(115) Section 2.5	extended to include vectors
(PJ) Citations	Separate references
sections 2.1, 2.7	Split references from Barnes and Bennet appropriately
(PJ/KS) Typo	Section 2.3 interction
(1 0/110) Typo	interaction
(PJ) Incorrect	Figure 2.6 shows the
reference	Equation 2.5 shows
(KS) Incorrect	(Figures 2.10, 2.10, 2.11)
reference	(Figures 2.10, 2.11, 2.12)
	Cardinality notation changed to use .
	$ nbr(b) \stackrel{\Delta}{=} \{b' \in S : bb' \le C_b \}$
(DI) E 1	$R(b) = \{b' \in S : bb' <= R_b\}$
(PJ) Formulae 2.1, 2.3, 2.4 - Formula notation	$v_r(b) = -\frac{1}{ R(b) } \left(\sum_{b' \in R(b)} \left(1 - \frac{ bb' }{R_b} \right) bb' \right)$ $\{o \in O : bo \le O_b\}$
(PJ) Section 2.6 -	moves an obstacles
Sentence restruc-	moves it may enter an obstacle's
ture	
(PJ) Section 2.8 -	Special case of Equation 2.7
Special case refer-	Special case of Equation 2.8
ence error	

(PJ) Spelling	Section 2.11 amp Figure 2.12 Stabalise Stabilise
(PJ) Expand Conclusion	No mention of current work Added small discussion of current work
(PJ) Explain ^	Section 2.6 uses unexplained notation Moved ^ explanation from section 2.9 to 2.6
(PJ) No equation	Section 2.9 uses inline formulae for movement. Equation broken out and referenced.

1.8 Simulator

(PJ) Consistency	Player/Stage
	player/stage
in capitalisation	p.ta.j. 62/ 6600g6

1.9 Magnitude Metric

(KS) Table $4.1 \rightarrow$ 3.1 Explain parameters	Hexagonal Modified labels and altered section to highlight that the parameters are arbitrary as they are only required to create a swarm to highlight the inter-agent relationships that exist.
(KS) Typos	swarms swarm's
$\begin{array}{c} \text{(PJ) Table 4.2} \rightarrow \\ 3.2 \text{ Explain Labels} \end{array}$	Log, Id, N.Id Labels expanded in text
$\begin{array}{c} \text{(PJ) Section } 4.2 \\ \rightarrow 3.2 \text{ Sentence} \\ \text{error} \end{array}$	vectorTable 4.4 vector. Table 4.4
$\begin{array}{c} \text{(PJ) Section } 4.3 \\ \rightarrow 3.3 \text{ Punctuation} \end{array}$	= 0) The = 0). The
$\begin{array}{c} \text{(PJ) Diagram 4.7} \\ \rightarrow 3.7 \text{ Label error} \end{array}$	agent of the second of the sec

(KS) Equations 4(3).2, 4(3).3, 4(3).4, 4(3).6, 4(3).7, 4(3).8 and inline equations cardinality notation changed	. . for magnitude. . for cardinality
(KS) Section 4.6 Typo	described is here described here

1.10 Swarm Type

(PJ) Typo in in-	is a swarm
troduction	in a swarm
(PJ) Parame-	Explain parameter requirements Paragraph added
ter explanation, Table $5.1 \rightarrow 4.1$	Paragraph added
(NE) Table labels	Neighbour and agent altered
(NE) Table labels in $5.1 \rightarrow 4.1$	Cohesion field, Repulsion field
(PJ) Section 5.2.1	Clarify graph mean
$\rightarrow 4.2.1$	Paragraph extended
(PJ) Section 5.3.1	Clarify bi-modal
$\rightarrow 4.3.1$	Paragraph extended
	Isn't Sect 5.4 a repetition
(PJ) Section 5.4	Section is a comparison to highlight that the new metric
$\rightarrow 4.4$ Comment	could be used as a replacement for the distance metric and
	provide additional status information
(PJ) Section 5.4	metric Figure 5.21
\rightarrow 4.4 Punctua-	metric. Figure 5.21
tion	
(PJ) Section 5.5	identical?
$\rightarrow 4.5 \text{ Expand}$	descrition extended

1.11 Perimeter Coordination

(PJ) Typo in introduction	applied. Partial
	applied, partial

(PJ) Fig 6(5).4 6(5).28, 6(5).29	Needs to indicate starting point Added "Start Point" and arrows to graphs
(PJ) Section 6(5).2 Typo	there their
(ks) Section 6(5).7.1.1 Typo	problem can is problem is
(KS) Section 6(5).7.2 Typo	algorithms selection algorithm's selection
(PJ) Section 6(5).8 Typo	must are are
(PJ) Section 6(5).8 Typo	its a goal towards it's goal
(KS) Section 6(5).8.1 Typo	algorithm is produces algorithm produces
(KS) Section 6(5).8.1 Sequence of refs	6.23, 6.25, 6.24 and 6.26 6.23, 6.24, 6.25 and 6.26
(KS) Section 6(5).8.3 Typo	(Figure 6.30) Figure 6(5).30
(PJ) Figure 6(5).31 Title change	speed path
(PJ) Section 6(5).9 Reference	Tables 6.8, 6.9 and 6.10
(PJ) Figure 6(5).42 Font	n_{1-7} Font increased
(PJ) Missing Section	Conclusion section missing Added conclusion

1.12 Concave Reduction

(PJ) Introduction sentence dupli- cates explanation	Depending upon Sentence removed
(PJ) Expand explanation	In some circumstances Circumstance explained

(PJ) Table Reference	Table 8.4 Table 7.1 (Error in latex label corrected)
(PJ) Figure title clarification Fig 7(6).12, 7(6).13	Baseline/Concave path effect Baseline/Concave path effect (after 600 iterations / 60s)
(PJ) Figure title clarification Fig 7(6).16, 7(6).18, 7(6).19	(80/60) (cohesion field 80 / repulsion field 60)
(PJ) Table 7.3 Location	Located below Figure 7(6).19 Moved to below 7(6).16 and referenced.
(PJ) Page 143? Figure reference 7.32	Incorrect latex reference Corrected
(PJ) Typo section 7(6).4	seem seen
(PJ) Figure title clarification 7(6).38, 7(6).39	60 Obstacle repulsion field 60 units for obstacle

1.13 Flood Filling

(PJ) Section 8.1.1 Typo	rseultant
(PJ) Section 8.1.2 Typo	space. each space. Each
(PJ) Section 8.1.2 Typo	seconds. between seconds. Between
(PJ) Section 8.1.2 Typo	feild field
(PJ) Section 8.1.3 Sentence restructure	uses a swarm that utilises uses both
(PJ) Section 8.2 Typo	thier their

(PJ) Section 8.2.1	stabalises
Typo	stabilises
(PJ) Section 8.2.1 Typo	distrurbances disturbances

1.14 Future Work