

# CONTENTS

<b>ABSTRACT (ENGLISH)</b>	i - ii
<b>ABSTRACT (MALAY)</b>	iii – iv
<b>ACKNOWLEDGEMENTS</b>	v- vi
<b>CONTENTS</b>	vii - xii
<b>LIST OF FIGURES</b>	xiii - xvi
<b>LIST OF TABLES</b>	xvii -xviii
<b>CHAPTER 1: INTRODUCTION</b>	<b>1 - 9</b>
1.1 Chapter Overview	1
1.2 Disfluencies in Spontaneous Speech	1
1.3 The Relationship Between Self-Monitoring, Error Detection and Self-Repair	3
1.4 Motivation	5
1.5 Objectives	6
1.6 Justification and Significance of Study	7
1.7 Scope and Limitations of the Study	8
1.8 Overview of the Dissertation	8
<b>CHAPTER 2: SPEECH DISFLUENCIES</b>	<b>10 - 75</b>
2.1 Introduction	10
2.2 The Speech Plan	10
2.3 Slips of the Tongue	15
2.4 Speech Errors	17
2.5 Hesitation Phenomena	19
2.6 Disfluencies	21
2.7 The Relationship between Errors, Hesitations and Disfluencies	21

2.8	Self-Repairs	26
2.8.1	Structure of Self- Repairs	28
2.8.2	Covert Repairs	32
2.8.3	Classes of Repairs	34
2.9	Categories of Disfluencies	37
2.9.1	Types of Hesitation	38
2.9.1.1	Silent Pauses	39
2.9.1.1.1	Measurements of Silent Pauses	40
2.9.1.1.2	Location of Silent Pauses	42
2.9.1.2	Filled Pauses	45
2.9.1.2.1	Location of Filled Pauses	48
2.9.1.3	Prolongations	49
2.9.1.3.1	Categorization of Prolongations	50
2.9.2	Types of Self-Repairs	53
2.9.2.1	Repeats	53
2.9.2.1.1	Classification of Repeats	57
2.9.2.2	Insertions	64
2.9.2.3	Substitutions	65
2.9.2.4	Deletions	67
2.9.2.4.1	Deletions and False Starts	68
2.10	Speech Disfluencies and Self-Repair in Second Language Production	71
2.11	Chapter Summary	75
<b>CHAPTER 3: THE PERCEPTUAL LOOP THEORY</b>		<b>76 - 106</b>
3.1	Introduction	76
3.2	Self-Monitoring and Self-Repair	76

3.3	The Perceptual Loop Theory	77
	3.3.1 The Speech Production Process	79
	3.3.2 The Process of Self-Monitoring	81
3.4	A Comparison with Other Production Models	85
	3.4.1 Laver's Production Model	86
	3.4.2 MacKay's Node Structure Theory	88
3.5	Self-Monitoring and Self-Repair Intervals	93
	3.5.1 Error-to-Cut off Intervals	94
	3.5.2 Cut off-to-Repair Intervals	96
	3.5.2.1 Hartsuiker and Kolks' (2001) Monitoring Model	98
	3.5.2.2 Fast Cut off-to-Repair Intervals in Repeats	102
	3.5.3 Error-to-Repair Intervals	105
3.6	Chapter Summary	105
<b>CHAPTER 4: RESEARCH METHODS</b>		<b>107 – 143</b>
4.1	Introduction	107
4.2	Source of Data	107
	4.2.1 Recording	112
	4.2.2 Transcription	113
4.3	Coding of Speech Disfluencies	115
	4.3.1 Hesitations	117
	4.3.1.1 Silent pauses	118
	4.3.1.2 Filled pauses	121
	4.3.1.3 Prolongations	121
	4.3.2 Types of Self-Repairs	126
	4.3.2.1 Repeats	129

4.3.2.2	Deletions	132
4.3.2.3	Substitutions	134
4.3.2.4	Insertions	134
4.4	Intervals in Self-Repairs	135
4.5	Statistical Analysis	139
4.6	Definition of Terms	140
4.7	Chapter Summary	143
<b>CHAPTER 5: RESULTS AND DISCUSSION OF HESITATIONS</b>		<b>144 – 182</b>
5.1	Introduction	144
5.2	Overview	145
5.3	Possible-Repairs	146
5.3.1	Hesitations in Possible-Repairs	148
5.3.1.1	Filled Pauses in Possible-Repairs	149
5.3.1.1.1	Location of Filled Pauses in Possible-Repairs	153
5.3.1.2	Silent Pauses in Possible-Repairs	155
5.3.1.2.1	Location of Silent Pauses in Possible-Repairs	158
5.3.1.3	Prolongations in Possible-Repairs	160
5.3.1.3.1	Locations of Prolongations in Possible Repairs	166
5.4	Hesitations in Self-Repairs	166
5.4.1	Filled Pauses in Self-Repairs	169
5.4.2	Silent Pauses in Self-Repairs	171
5.4.2.1	Silent Pauses After Fragments and Non-Fragments	175
5.4.3	Prolongations in Self-Repairs	178

5.4.3.1	Prolongations in the Structure of Repairs	180
5.5	Summary	182
<b>CHAPTER 6: RESULTS AND DISCUSSION OF SELF-REPAIRS</b>		<b>183 – 211</b>
6.1	Introduction	183
6.2	Types of Self-Repairs	183
6.2.1	Repeats	185
6.2.1.1	Types of Repeats	188
6.2.1.1.1	Retrospective Repeats	188
6.2.1.1.2	Stalling Repeats	192
6.2.1.1.3	Repeats as Covert Self-Repairs	197
6.2.1.2	Type of Repeated Words	200
6.2.2	Deletions	201
6.2.2.1	Fragment Deletions	203
6.2.3	Substitutions	204
6.2.4	Insertions	207
6.3	Unclassifiable Repairs	209
6.4	Summary	210
<b>CHAPTER 7: RESULTS AND DISCUSSION OF REPAIR INTERVALS</b>		<b>212 – 237</b>
7.1	Introduction	212
7.2	Error-to-Cut off Intervals	212
7.3	Cut off-to-Repair Intervals	220
7.4	Error-to-Repair Intervals	230
7.5	Summary	236

<b>CHAPTER 8: SUMMARY AND CONCLUSION</b>	<b>238– 255</b>
8.1 Overview	238
8.2 Research Question 1: What patterns of disfluencies can be found in the data?	238
8.2.1 Hesitations	342
8.2.2 Self-repairs	244
8.2.2.1 Repeats	247
8.2.2.2 Deletions	248
8.2.2.3 Substitutions	249
8.2.2.4 Insertions	249
8.3 Research Question 2: What do the time intervals of error-to-cut off, cut off-to-repair and error-to-repair reveal about the process of self-monitoring and self-repair in the spontaneous production of speech?	250
8.3.1 Error-to-Cut-off Intervals	250
8.3.2 Cut off-to-Repair Intervals	252
8.3.3 Error-to-Repair Intervals	253
8.4 Significance of the Findings and Future Directions	254
8.5 Conclusion	255
<b>REFERENCES</b>	<b>256 – 267</b>
<b>APPENDIX</b>	<b>268 - 341</b>