

TABLE OF CONTENTS

AUTHENTICATION PAGE	i
STATEMENT PAGE	ii
FOREWORD.....	iii
ABSTRACT	v
TABLE OF CONTENTS.....	vi
LIST TABLE.....	ix
LIST OF FIGURES	x
CHAPTER 1 INTRODUCTION	1
1.1 Overview of Research Objects	1
1.2 Research Background.....	2
1.3 The Problem Statement	9
1.4 Research Purposes	9
1.5 Benefits of Research.....	9
1.5.1 Academic Benefits.....	10
1.5.2 Practical Benefits	10
1.6 Scope of Research	10
1.7 Writing System.....	10
CHAPTER 2 LITERATURE REVIEW	13
2.1 Foundation Theories and Previous Research Findings	13
2.1.1 Investment.....	13
2.1.2 Investors	14
2.1.3 Forecasting	15
2.1.4 Macroeconomics	15

2.2	Previous Research	22
2.3	Conceptual Framework	29
CHAPTER 3 RESEARCH METHOD.....		31
3.1	Characteristic of Research.....	31
3.2	Operational Variables.....	31
3.3	Research Stages	34
3.4	Population and Sample.....	35
3.4.1	Population	35
3.4.2	Sample.....	35
3.5	Data Collection Tools.....	35
3.5.1	Types of data.....	35
3.5.2	Data Source	35
3.6	Data Analysis Technique.....	36
3.6.1	Data Design.....	36
3.6.2	Stock Price Prediction with Long Short-Term Memory Network..	37
3.6.2.1	Training Process	38
3.6.2.2	Exploratory Data Analysis	39
3.6.2.3	Testing Process.....	40
3.6.2.4	Calculation of Performance Value	40
CHAPTER 4 RESEARCH RESULT AND DISCUSSION.....		41
4.1	Data analysis	41
4.1.1	Data Characteristics.....	41
4.1.2	Exploratory Data Analysis	42
4.1.3	<i>Stock Return</i> of Index LQ45.....	46
4.2	Long Short-Term Memory (LSTM) Model Analysis	46

4.2.1 LSTM Parameter Determination.....	47
4.2.2 Learning Outcomes from LSTM.....	48
4.3 Finding Discussion.....	51
CHAPTER 5 CONCLUSION AND RECOMMENDATION.....	53
5.1 Conclusion	53
5.2 Recommendation.....	54
5.2.1 Academic Benefits	54
5.2.2 Practical Benefits	54
REFERENCE	56